

Supplemental Table S1: Search strategy for studies assessing of the efficacy of intravitreal dexamethasone implant and anti-VEGF drugs in the treatment of RVO induced macular edema.

Database	Search period	Search Terms
Medline	Inception to December 10, 2019	<ol style="list-style-type: none"> 1. Macular Edema 2. Edema, Macular 3. Dexamethasone Intravitreal Implant 4. Intravitreal Dexamethasone Implant 5. Implantable Dexamethasone 6. Ozurdex 7. Slow-release Dexamethasone 8. anti-VEGF 9. anti-vascular endothelial growth factor agents 10. vascular endothelial growth factor inhibitor 11. Ranibizumab 12. Bevacizumab 13. Aflibercept 14. 1 or 2 15. 3 or 4 or 5 or 6 or 7 16. 8 or 9 or 10 or 11 or 12 or 13 17. 14 and 15 and 16

Note: the search strategy was also repeated in the Cochrane Library

Supplemental Table S2: PICO framework of the search strategy.

PICO framework defined in the present systematic review and meta-analysis			
Participants	Interventions	Comparators	Outcomes
Macular Edema, not restricted by retinal vein occlusion (RVO)	Dexamethasone Intravitreal Implant	anti-VEGF agents which including Ranibizumab, Bevacizumab, Aflibercept	Best corrected visual acuity (BCVA), central subfield thickness (CST)

Note: In the practical developing of the search strategy framework, we did not restrict the search with keywords as “retinal vein occlusion” and the interested outcomes, so that more literature could be searched for inclusion review.

Supplemental Table S3: PRISMA 2009 Checklist

Section/topic	#	Checklist item	Reported on page #
TITLE			
Title	1	Identify the report as a systematic review, meta-analysis, or both.	1
ABSTRACT			
Structured summary	2	Provide a structured summary including, as applicable: background; objectives; data sources; study eligibility criteria, participants, and interventions; study appraisal and synthesis methods; results; limitations; conclusions and implications of key findings; systematic review registration number.	2
INTRODUCTION			
Rationale	3	Describe the rationale for the review in the context of what is already known.	3
Objectives	4	Provide an explicit statement of questions being addressed with reference to participants, interventions, comparisons, outcomes, and study design (PICOS).	4
METHODS			
Protocol and registration	5	Indicate if a review protocol exists, if and where it can be accessed (e.g., Web address), and, if available, provide registration information including registration number.	NA
Eligibility criteria	6	Specify study characteristics (e.g., PICOS, length of follow-up) and report characteristics (e.g., years considered, language, publication status) used as criteria for eligibility, giving rationale.	5-6
Information sources	7	Describe all information sources (e.g., databases with dates of coverage, contact with study authors to identify additional studies) in the search and date last searched.	5
Search	8	Present full electronic search strategy for at least one database, including any limits used, such that it could be repeated.	5

Study selection	9	State the process for selecting studies (i.e., screening, eligibility, included in systematic review, and, if applicable, included in the meta-analysis).	5
Data collection process	10	Describe method of data extraction from reports (e.g., piloted forms, independently, in duplicate) and any processes for obtaining and confirming data from investigators.	6
Data items	11	List and define all variables for which data were sought (e.g., PICOS, funding sources) and any assumptions and simplifications made.	6
Risk of bias in individual studies	12	Describe methods used for assessing risk of bias of individual studies (including specification of whether this was done at the study or outcome level), and how this information is to be used in any data synthesis.	7
Summary measures	13	State the principal summary measures (e.g., risk ratio, difference in means).	6
Synthesis of results	14	Describe the methods of handling data and combining results of studies, if done, including measures of consistency (e.g., I^2) for each meta-analysis.	7

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Section/topic	#	Checklist item	Reported on page #
Risk of bias across studies	15	Specify any assessment of risk of bias that may affect the cumulative evidence (e.g., publication bias, selective reporting within studies).	7
Additional analyses	16	Describe methods of additional analyses (e.g., sensitivity or subgroup analyses, meta-regression), if done, indicating which were pre-specified.	7
RESULTS			
Study selection	17	Give numbers of studies screened, assessed for eligibility, and included in the review, with reasons for exclusions at each stage, ideally with a flow diagram.	8

Study characteristics	18	For each study, present characteristics for which data were extracted (e.g., study size, PICOS, follow-up period) and provide the citations.	8-12
Risk of bias within studies	19	Present data on risk of bias of each study and, if available, any outcome level assessment (see item 12).	8 and 12
Results of individual studies	20	For all outcomes considered (benefits or harms), present, for each study: (a) simple summary data for each intervention group (b) effect estimates and confidence intervals, ideally with a forest plot.	14-18
Synthesis of results	21	Present results of each meta-analysis done, including confidence intervals and measures of consistency.	12-13
Risk of bias across studies	22	Present results of any assessment of risk of bias across studies (see Item 15).	8 and 12
Additional analysis	23	Give results of additional analyses, if done (e.g., sensitivity or subgroup analyses, meta-regression [see Item 16]).	Not applicable
DISCUSSION			
Summary of evidence	24	Summarize the main findings including the strength of evidence for each main outcome; consider their relevance to key groups (e.g., healthcare providers, users, and policy makers).	18-19
Limitations	25	Discuss limitations at study and outcome level (e.g., risk of bias), and at review-level (e.g., incomplete retrieval of identified research, reporting bias).	21
Conclusions	26	Provide a general interpretation of the results in the context of other evidence, and implications for future research.	19-20
FUNDING			
Funding	27	Describe sources of funding for the systematic review and other support (e.g., supply of data); role of funders for the systematic review.	22

From: Moher D, Liberati A, Tetzlaff J, Altman DG, The PRISMA Group (2009). Preferred Reporting Items for Systematic Reviews and Meta-Analyses: The PRISMA Statement. PLoS Med 6(6): e1000097. doi:10.1371/journal.pmed1000097

For more information, visit: www.prisma-statement.org.

Supplemental Table S4: RoB 2 Bias Assessment Tool for included RCTs.

Unique ID	COMO	Study ID	Bandello 2018	Assessor	MS
Ref or Label		Aim	assignment to intervention (the 'intention-to-treat' effect)		
Experimental	Dexamethasone implant	Comparator	Ranibizumab	Source	Journal article(s) with results of the trial; Non-commercial trial registry record (e.g. ClinicalTrials.gov record)
Outcome		Results		Weight	1
Domain	Signalling question		Response	Comments	
Bias arising from the randomization process	1.1 Was the allocation sequence random?		PY	Randomized allocation described in ClinicalTrail.gov. Subjects were randomized 1:1 to treatment with DEX implant or intravitreal ranibizumab and stratified based on the pre-enrollment BCVA.	
	1.2 Was the allocation sequence concealed until participants were enrolled and assigned to interventions?		PY		
	1.3 Did baseline differences between intervention groups suggest a problem with the randomization process?		NI		
	Risk of bias judgement		Low		
Bias due to deviations from intended interventions	2.1. Were participants aware of their assigned intervention during the trial?		N	single masking to outcomes assessor, open-label trail	
	2.2. Were carers and people delivering the interventions aware of participants' assigned intervention during the trial?		Y		
	2.3. If Y/PY/NI to 2.1 or 2.2: Were there deviations from the intended intervention that arose because of the experimental context?		NI	no information	
	2.4 If Y/PY to 2.3: Were these deviations likely to have affected the outcome?		NA		
	2.5. If Y/PY/NI to 2.4: Were these deviations from intended intervention balanced		NA		

	between groups?		
	2.6 Was an appropriate analysis used to estimate the effect of assignment to intervention?	NI	no information
	2.7 If N/PN/NI to 2.6: Was there potential for a substantial impact (on the result) of the failure to analyse participants in the group to which they were randomized?	NI	no information
	Risk of bias judgement	High	open label.
Bias due to missing outcome data	3.1 Were data for this outcome available for all, or nearly all, participants randomized?	PY	303/307
	3.2 If N/PN/NI to 3.1: Is there evidence that result was not biased by missing outcome data?	NA	
	3.3 If N/PN to 3.2: Could missingness in the outcome depend on its true value?	NA	
	3.4 If Y/PY/NI to 3.3: Is it likely that missingness in the outcome depended on its true value?	NA	
	Risk of bias judgement	Low	
Bias in measurement of the outcome	4.1 Was the method of measuring the outcome inappropriate?	N	outcomes of BCVA and CMT were pre-specified.
	4.2 Could measurement or ascertainment of the outcome have differed between intervention groups?	PN	efficacy outcomes were assessed independently. No evidence showed additional visits, or any diagnostic detection bias.
	4.3 Were outcome assessors aware of the intervention received by study participants?	N	all ocular assessments were carried out by the evaluating physician who was masked to the treatment assignment.
	4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received?	NA	
	4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received?	NA	
	Risk of bias judgement	Low	
Bias in selection of	5.1 Were the data that produced this result analysed in accordance with a	NI	no information

the reported result	pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis?		
	5.2 ... multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain?	PN	there is only one possible way in which the outcome measurement can be analysed.
	5.3 ... multiple eligible analyses of the data?	NI	there is only one possible way in which the outcome measurement can be analysed.
	Risk of bias judgement	Some concerns	
Overall bias	Risk of bias judgement	Some concerns	

Unique ID	COMRADE-B	Study ID	Hattenbach 2017	Assessor	MS
Ref or Label		Aim	assignment to intervention (the 'intention-to-treat' effect)		
Experimental	Dexamethasone implant	Comparator	Ranibizumab	Source	Journal article(s) with results of the trial; Non-commercial trial registry record (e.g. ClinicalTrials.gov record)
Outcome		Results		Weight	1
Domain	Signalling question		Response		Comments
Bias arising from the randomization process	1.1 Was the allocation sequence random?		Y		A randomization list was produced using a validated system that randomly assigned the treatment arms to randomization numbers in the specified ratio. all ocular assessments were carried out by the evaluating
	1.2 Was the allocation sequence concealed until participants were enrolled and assigned to interventions?		PY		

			physician who was masked to the treatment assignment. Detail is rarely provided in reports.
	1.3 Did baseline differences between intervention groups suggest a problem with the randomization process?	N	Baseline patient demographics and ocular and disease characteristics were comparable. No imbalances are apparent.
	Risk of bias judgement	Low	
Bias due to deviations from intended interventions	2.1. Were participants aware of their assigned intervention during the trial?	N	Double masking to participant and investigator. both groups recieved sham injection. randomized allocation was also concealed.
	2.2. Were carers and people delivering the interventions aware of participants' assigned intervention during the trial?	N	
	2.3. If Y/PY/NI to 2.1 or 2.2: Were there deviations from the intended intervention that arose because of the experimental context?	NA	
	2.4 If Y/PY to 2.3: Were these deviations likely to have affected the outcome?	NA	
	2.5. If Y/PY/NI to 2.4: Were these deviations from intended intervention balanced between groups?	NA	
	2.6 Was an appropriate analysis used to estimate the effect of assignment to intervention?	PY	the efficacy and safety analyses were performed on the FAS (LOCF approach) and the safety set. and the paper report sensitivity analysis performed using the "as-documented" approach (observed values only, without imputation) confirmed the results observed with the primary analysis.
	2.7 If N/PN/NI to 2.6: Was there potential for a substantial impact (on the result) of the failure to analyse participants in the group to which they were randomized?	NA	
	Risk of bias judgement	Some concerns	
Bias due to missing outcome data	3.1 Were data for this outcome available for all, or nearly all, participants randomized?	PN	Ranibizumab group: 115/126, Dexamethasone group: 100/118
	3.2 If N/PN/NI to 3.1: Is there evidence that result was not biased by missing outcome data?	PY	sensitivity analysis performed using the "as-documented" approach (observed values only, without imputation) confirmed

			the results observed with the primary analysis.
	3.3 If N/PN to 3.2: Could missingness in the outcome depend on its true value?	NA	
	3.4 If Y/PY/NI to 3.3: Is it likely that missingness in the outcome depended on its true value?	NA	
	Risk of bias judgement	Low	
Bias in measurement of the outcome	4.1 Was the method of measuring the outcome inappropriate?	N	outcomes of BCVA and CMT were pre-specified.
	4.2 Could measurement or ascertainment of the outcome have differed between intervention groups?	PN	efficacy outcomes were assessed independently. No evidence showed additional visits, or any diagnostic detection bias.
	4.3 Were outcome assessors aware of the intervention received by study participants?	N	all ocular assessments were carried out by the evaluating physician who was masked to the treatment assignment.
	4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received?	NA	
	4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received?	NA	
	Risk of bias judgement	Low	
Bias in selection of the reported result	5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis?	NI	We choose ETDRS-like VA testing chart and OCT-based CRT as eligible outcomes for inclusion in our meta-analysis. this study reported them, so there would not be an issue of selection.
	5.2 ... multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain?	PN	there is only one possible way in which the outcome measurement can be analysed.
	5.3 ... multiple eligible analyses of the data?	PN	there is only one possible way in which the outcome measurement can be analysed.
	Risk of bias judgement	Low	
Overall bias	Risk of bias judgement	Low	

Unique ID	COMRADE-C	Study ID	COMRADE-C	Assessor	MS
Ref or Label		Aim	assignment to intervention (the 'intention-to-treat' effect)		
Experimental	Dexamethasone implant	Comparator	Ranibizumab	Source	Journal article(s) with results of the trial; Non-commercial trial registry record (e.g. ClinicalTrials.gov record)
Outcome		Results		Weight	1
Domain	Signalling question		Response	Comments	
Bias arising from the randomization process	1.1 Was the allocation sequence random?		Y	A randomization list was produced using a validated system that randomly assigned the treatment arms to randomization numbers in the specified ratio.	
	1.2 Was the allocation sequence concealed until participants were enrolled and assigned to interventions?		PY		
	1.3 Did baseline differences between intervention groups suggest a problem with the randomization process?		N	Baseline patient demographics and ocular and disease characteristics were comparable. No imbalances are apparent.	
	Risk of bias judgement		Low		
Bias due to deviations from intended interventions	2.1. Were participants aware of their assigned intervention during the trial?		N	Double masking to participant and investigator. both groups received sham injection. randomized allocation was also concealed.	
	2.2. Were carers and people delivering the interventions aware of participants' assigned intervention during the trial?		N		
	2.3. If Y/PY/NI to 2.1 or 2.2: Were there deviations from the intended intervention		NA		

	that arose because of the experimental context?		
	2.4 If Y/PY to 2.3: Were these deviations likely to have affected the outcome?	NA	
	2.5. If Y/PY/NI to 2.4: Were these deviations from intended intervention balanced between groups?	NA	
	2.6 Was an appropriate analysis used to estimate the effect of assignment to intervention?	PY	Primary analysis was performed on the full analysis set (FAS) that comprised all the patients.
	2.7 If N/PN/NI to 2.6: Was there potential for a substantial impact (on the result) of the failure to analyse participants in the group to which they were randomized?	NA	
	Risk of bias judgement	Low	
Bias due to missing outcome data	3.1 Were data for this outcome available for all, or nearly all, participants randomized?	PN	study completion rate in Dexamethasone group is 72/119 (60.5%)
	3.2 If N/PN/NI to 3.1: Is there evidence that result was not biased by missing outcome data?	PN	sensitivity analysis revealed consistent results for the MRMM, as well as the as-observed analyses compared to the primary LOCF approach. however, sensitivity analysis on the PPS(as observed) yielded a lower difference in the mean average change in BCVA as compared to the primary result, which may in part result from the low sample size in the PPS.
	3.3 If N/PN to 3.2: Could missingness in the outcome depend on its true value?	PY	A greater number of patients dropped out from the dexamethasone group because of AEs aor unsatisfactory therapeutic effect (23.5%)
	3.4 If Y/PY/NI to 3.3: Is it likely that missingness in the outcome depended on its true value?	PY	
	Risk of bias judgement	High	drop out rate was relatively high in Dex arm
Bias in measurement of the outcome	4.1 Was the method of measuring the outcome inappropriate?	N	outcomes of BCVA and CMT were pre-specified.
	4.2 Could measurement or ascertainment of the outcome have differed between intervention groups?	PN	efficacy outcomes were assessed independently. No evidence showed additional visits, or any diagnostic detection bias.
	4.3 Were outcome assessors aware of the intervention received by study	N	all ocular assessments were carried out by the evaluating

	participants?		physician who was masked to the treatment assignment.
	4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received?	NA	
	4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received?	NA	
	Risk of bias judgement	Low	
Bias in selection of the reported result	5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis?	NI	We choose ETDRS-like VA testing chart and OCT-based CRT as eligible outcomes for inclusion in our meta-analysis. this study reported them, so there would not be an issue of selection.
	5.2 ... multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain?	PN	there is only one possible way in which the outcome measurement can be analysed.
	5.3 ... multiple eligible analyses of the data?	PN	there is only one possible way in which the outcome measurement can be analysed.
	Risk of bias judgement	Low	
Overall bias	Risk of bias judgement	Some concerns	

Unique ID	Gado et al	Study ID	Gado et al	Assessor	MS
Ref or Label		Aim	assignment to intervention (the 'intention-to-treat' effect)		
Experimental	Dexamethasone implant	Comparator	Bevacizumab	Source	Journal article(s) with results of the trial
Outcome		Results		Weight	1

Domain	Signalling question	Response	Comments
Bias arising from the randomization process	1.1 Was the allocation sequence random?	Y	Patients were randomized using a computergenerated blocked randomization. Randomization was done at the day of the first injection by staff not involved in patient treatment or follow up. study patients were maskedto the treatment given. staff performing BCVA testing OCT, fudus photographs and angiographies were masked to the treatment group
	1.2 Was the allocation sequence concealed until participants were enrolled and assigned to interventions?	Y	
	1.3 Did baseline differences between intervention groups suggest a problem with the randomization process?	N	
	Risk of bias judgement		Low
Bias due to deviations from intended interventions	2.1.Were participants aware of their assigned intervention during the trial?	PN	study patients were masked to the treatment given. but they were not given a placebo or sham.
	2.2.Were carers and people delivering the interventions aware of participants' assigned intervention during the trial?	PN	
	2.3. If Y/PY/NI to 2.1 or 2.2: Were there deviations from the intended intervention that arose because of the experimental context?	NA	
	2.4 If Y/PY to 2.3: Were these deviations likely to have affected the outcome?	NA	
	2.5. If Y/PY/NI to 2.4: Were these deviations from intended intervention balanced between groups?	NA	
	2.6 Was an appropriate analysis used to estimate the effect of assignment to intervention?	PY	according to the report, it seems no participants lost follow-up. FAS was used to analysis the effects.
	2.7 If N/PN/NI to 2.6: Was there potential for a substantial impact (on the result) of the failure to analyse participants in the group to which they were randomized?	NA	
	Risk of bias judgement		Low
Bias due to missing outcome	3.1 Were data for this outcome available for all, or nearly all, participants randomized?	Y	the paper reported all participants.

data	3.2 If N/PN/NI to 3.1: Is there evidence that result was not biased by missing outcome data?	NA	
	3.3 If N/PN to 3.2: Could missingness in the outcome depend on its true value?	NA	
	3.4 If Y/PY/NI to 3.3: Is it likely that missingness in the outcome depended on its true value?	NA	
	Risk of bias judgement	Low	
Bias in measurement of the outcome	4.1 Was the method of measuring the outcome inappropriate?	PN	pre-specified outcomes
	4.2 Could measurement or ascertainment of the outcome have differed between intervention groups?	PN	The same methods of outcome measurement were used at the same time point
	4.3 Were outcome assessors aware of the intervention received by study participants?	PN	Staff performing BCVA testing, OCT, Fundus photographs and angiographies were masked to the treatment group.
	4.4 If Y/PY/NI to 4.3: Could assessment of the outcome have been influenced by knowledge of intervention received?	NA	
	4.5 If Y/PY/NI to 4.4: Is it likely that assessment of the outcome was influenced by knowledge of intervention received?	NA	
	Risk of bias judgement	Low	
Bias in selection of the reported result	5.1 Were the data that produced this result analysed in accordance with a pre-specified analysis plan that was finalized before unblinded outcome data were available for analysis?	NI	no data
	5.2 ... multiple eligible outcome measurements (e.g. scales, definitions, time points) within the outcome domain?	PN	there is only one possible way in which the outcome measurement can be analysed.
	5.3 ... multiple eligible analyses of the data?	PN	there is only one possible way in which the outcome measurement can be analysed.
	Risk of bias judgement	Some concerns	
Overall bias	Risk of bias judgement	Some concerns	

Supplementary table S5: GRADE assessment of study quality.

Quality assessment							No of patients		Effect		Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Change of BCVA	Control	Relative (95% CI)	Absolute		
Change of BCVA - At 6-month (follow-up mean 6 months)												
2	randomised trials	no serious risk of bias ¹	serious ^{2,3}	no serious indirectness	no serious imprecision	none	237	250	-	MD 12.68 lower (21.98 to 3.37 lower)	⊕⊕⊕O MODERATE	CRITICAL
Change of BCVA - At 12-month (follow-up mean 12 months)												
3	randomised trials	serious ^{1,4,5}	no serious inconsistency	no serious indirectness	no serious imprecision ⁶	none	216	265	-	MD 9.69 lower (12.01 to 7.37 lower)	⊕⊕⊕O MODERATE	CRITICAL
Change of BCVA - Baseline to month-end (AUC) (follow-up 6-12 months)												
3	randomised trials	serious ^{1,4}	no serious inconsistency ⁷	no serious indirectness	no serious imprecision	none	391	403	-	MD 6.59 lower (8.97 to 4.22 lower)	⊕⊕⊕O MODERATE	CRITICAL

¹ Lost follow-up rate in DEX arm is high (39.5%), however the study give good ITT and sensitive analysis.

² Dexamethasone might be under-dosed as administered only 1 injection in 6 months.

³ the I² is large

⁴ COMO was an open label trial, lack of blinding

⁵ the extension study of COMRADE-B and C was open-label

⁶ outcome of BCVA in COMRADE-C was not precision enough. we chose to neglect this effect

⁷ I² is moderate large (61%), while P value is 0.008, we chose to neglect this influence

Quality assessment							No of patients		Effect		Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Change of CRT	Control	Relative (95% CI)	Absolute		
Change of CRT - At 6-month (follow-up mean 6 months)												
3	randomised trials	no serious risk of bias ¹	serious ^{2,3}	no serious indirectness	no serious imprecision	none	267	280	-	MD 100.01 higher (25.53 lower to 225.56 higher)	⊕⊕⊕○ MODERATE	IMPORTANT
Change of CRT - At 12-month (follow-up mean 12 months)												
3	randomised trials	serious ^{1,4,5}	no serious inconsistency	no serious indirectness	no serious imprecision	none	202	255	-	MD 41.72 higher (5.03 to 78.4 higher)	⊕⊕⊕○ MODERATE	CRITICAL

¹ Lost follow-up rate in DEX arm is high (39.5%), however the study give good ITT and sensitive analysis.

² Dexamethasone might be under-dosed as administered only 1 injection in 6 months.

³ the I2 is large

⁴ COMO was an open label trial, lack of blinding

⁵ the extension study of COMRADE-B and C was open-label

Quality assessment							No of patients		Effect		Quality	Importance
No of studies	Design	Risk of bias	Inconsistency	Indirectness	Imprecision	Other considerations	Safety	Control	Relative (95% CI)	Absolute		
safety - Total of SAEs (follow-up 6-12 months)												
3	randomised trials	serious ^{1,2}	no serious inconsistency	no serious indirectness	no serious imprecision	none	37/390 (9.5%)	33/400 (8.3%)	OR 1.16 (0.71 to 1.9)	12 more per 1000 (from 22 fewer to 63 more)	⊕⊕⊕○ MODERATE	IMPORTANT

								8.1%		12 more per 1000 (from 22 fewer to 62 more)		
safety - Total of other AEs (follow-up 6-12 months)												
3	randomised trials	serious ^{1,2}	no serious inconsistency	no serious indirectness	no serious imprecision	none	315/390	252/400	OR 2.47 (1.78 to 3.42)	178 more per 1000 (from 122 more to 223 more)	⊕⊕⊕⊕ MODERATE	IMPORTANT
							(80.8%)	(63%)		181 more per 1000 (from 124 more to 228 more)		
								62.1%				
safety - Elevated IOP												
2	randomised trials	serious ^{1,2}	no serious inconsistency	no serious indirectness	no serious imprecision	strong association ³	88/272	23/274	OR 5.2 (3.16 to 8.55)	239 more per 1000 (from 141 more to 355 more)	⊕⊕⊕⊕ HIGH	IMPORTANT
							(32.4%)	(8.4%)		235 more per 1000 (from 138 more to 351 more)		
								8.2%				
safety - Ocular hypertension (follow-up 6-12 months)												
3	randomised trials	serious ^{1,2}	no serious inconsistency	no serious indirectness	serious ⁴	strong association ³	21/390	1/400	OR 11.83 (2.77 to 50.63)	26 more per 1000 (from 4 more to 110 more)	⊕⊕⊕⊕ MODERATE	IMPORTANT
							(5.4%)	(0.25%)		-		
								0%				
safety - Eye pain (follow-up 6-12 months)												
3	randomised trials	serious ^{1,2}	no serious inconsistency	no serious indirectness	no serious imprecision	none	34/390	33/400	OR 1.07 (0.65 to 1.78)	5 more per 1000 (from 27 fewer to 55 more)	⊕⊕⊕⊕ MODERATE	NOT IMPORTANT
							(8.7%)	(8.3%)		5 more per 1000 (from 24 fewer to 49 more)		
								7.1%				
safety - Vitreous floaters (follow-up 6-12 months)												
3	randomised trials	serious ^{1,2}	no serious inconsistency	no serious indirectness	no serious imprecision	none	23/390	17/400	OR 1.4 (0.74 to 2.67)	16 more per 1000 (from 11 fewer to 63 more)	⊕⊕⊕⊕ MODERATE	NOT IMPORTANT

								4%		15 more per 1000 (from 10 fewer to 60 more)		
safety - Conjunctival hemorrhage (follow-up 6-12 months)												
3	randomised trials	serious ^{1,2}	no serious inconsistency	no serious indirectness	no serious imprecision	none	56/390 (14.4%)	45/400 (11.3%)	OR 1.32 (0.86 to 2)	31 more per 1000 (from 14 fewer to 90 more)	⊕⊕⊕○ MODERATE	NOT IMPORTANT
								11.3%		31 more per 1000 (from 14 fewer to 90 more)		
safety - Cataract (follow-up 6-12 months)												
3	randomised trials	serious ^{1,2}	no serious inconsistency	no serious indirectness	serious ⁴	strong association ³	18/390 (4.6%)	3/400 (0.8%)	OR 5.61 (1.77 to 17.78)	33 more per 1000 (from 6 more to 111 more)	⊕⊕⊕○ MODERATE	IMPORTANT
								0.8%		35 more per 1000 (from 6 more to 117 more)		

¹ COMO was an open label trial, lack of blinding

² Lost follow-up rate in DEX arm is high (39.5%), however the study gave good ITT and sensitive analysis.

³ Pooled RR is more than 2 and with no plausible confounders

⁴ included trials showed imprecise 95% CI which includes both 1) no effect and 2) appreciable harm.