

Supplementary Table 1 Inclusion criteria

Study	Baseline BCVA	Disease duration
Battaglia Parodi et al.⁸	≤ 74 letters*	Not available
BRAVO^{9 23}	19–73 letters (20/400–20/40)	≤ 52 weeks
BRIGHTER³²	19–73 letters (20/400–20/40)	≤ 24 months
COMRADE-B³³	19–73 letters (20/400–20/40)	≤ 6 months
GENEVA^{14 34}	34–68 letters (20/200–20/50)	Duration of macular oedema ≤ 52 weeks
RABAMES²²	24–73 letters (20/320–20/40)	> 3 to < 18 months
Tan et al.²⁷	19–68 letters (20/400–20/50)	6 weeks to 9 months
VIBRANT¹²	24–73 letters (20/320–20/40)	≤ 52 weeks

*Decimal score converted into ETDRS letters.

BCVA, best-corrected visual acuity; ETDRS, Early Treatment Diabetic Retinopathy Study.

Supplementary Table 2 Impact of adjusting inclusion criteria for BRIGHTER¹¹ on baseline characteristics.

Baseline characteristic	Before adjustment				After adjustment			
	Ranibizumab 0.5 mg PRN	Ranibizumab 0.5 mg PRN + laser	Laser	p value	Ranibizumab 0.5 mg PRN	Ranibizumab 0.5 mg PRN + laser	Laser	p value
Patients (n)	180	178	90		142	143	72	
Female (%)	49.2	46.7	59.8	0.11	49.0	42.7	60.8	0.04
Duration of disease (months)	10.3	9.3	10.5	0.85	3.4	3.2	2.8	0.44
Age (years)	64.7	67.3	67.8	0.02	63.9	66.7	67.1	0.03
BCVA (letters)	59.5	56.6	56.5	0.05	58.9	56.7	58.3	0.28

p values calculated with an analysis of variance test for continuous variables (duration of disease, age, BCVA) and with a X-squared test for the categorical variable (gender).

BCVA, best-corrected visual acuity; PRN, *pro re nata* (as needed). Before adjustment, the number of patients is based on the full analysis set and the other demographics are based on the randomized set

Supplementary Table 3 Outcomes before adjustment of baseline characteristics for BRAVO, BRIGHTER and COMRADE-B

Study	Outcome	Treatment group			
		Ranibizumab 0.5 mg PRN	Laser	Sham	Dexamethasone 0.7 mg implant
BRAVO⁹	n/N (%)	80/131 (61)		38/132 (29)	
	LG (SD)	18.3 (13.2)		7.3 (13.0)	
COMRADE-B³³	n/N (%)	77/126 (61)			44/118 (37)
	LG (SD)	17.3 (11.8)			9.2 (12.5)
BRIGHTER³²	n/N (%)	81/180 (45)	25/90 (28)		83/178 (47)
	LG (SD)	14.8 (10.7)	6.0 (14.3)		14.4 (12.0)

BCVA, best-corrected visual acuity; LG, BCVA letters gained from baseline to month 6 or month 12; n, number of patients in treatment arm with adverse events; N, total number of patients in treatment arm; PRN, *pro re nata* (as needed); SD, standard deviation.

Supplementary Table 4

Node-splitting (consistency between direct and indirect evidence): BCVA letters gained

Comparison	Direct evidence estimates (95% CrI)	Indirect evidence estimates (95% CrI)	Difference between direct and indirect estimates (95% CrI)
Ranibizumab 0.5 mg			
PRN vs dexamethasone	7.8 letters (1.8–13.8)	8.1 letters (0.8–15.5)	-0.3 letters (-9.9–9.2)
0.7 mg implant			
Laser vs sham	-1.4 letters (-9.0–6.0)	-0.6 letters (-7.6–6.1)	-0.7 letters (-11.0–9.5)
Ranibizumab 0.5 mg			
PRN vs laser	9.6 letters (5.7–14.4)	12.2 letters (1.9–22.6)	-2.5 letters (-13.4–9.1)

BCVA, best-corrected visual acuity; CrI, credible interval; PRN, *pro re nata* (as needed);

Supplementary materials. Medline search strategy for RCTs published since 2010

Database: Ovid MEDLINE(R) <1946 to July Week 4 2014>, Ovid MEDLINE(R) In-Process & Other Non-Indexed Citations <August 04, 2014>

- 1 exp Randomized Controlled Trials as Topic/ (95562)
- 2 exp Clinical Trials as Topic/ (283374)
- 3 randomised controlled trial.mp. [mp=title, abstract, original title, name of substance word, subject heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier] (11379)
- 4 exp Random Allocation/ (81374)
- 5 exp Double-Blind Method/ (127150)
- 6 exp Single-Blind Method/ (19394)
- 7 exp Clinical Trial/ (777973)
- 8 1 or 2 or 3 or 4 or 5 or 6 or 7 (1046544)
- 9 ((singl\$ or doubl\$ or treb\$ or tripl\$) adj (blind\$3 or mask\$3)).tw. (131376)
- 10 (clinic\$ adj trial\$1).tw. (221207)
- 11 exp Placebos/ (32810)
- 12 placebo\$.tw. (161803)
- 13 randomly allocated.tw. (17435)
- 14 (allocated adj2 random).tw. (719)
- 15 9 or 10 or 11 or 12 or 13 or 14 (428319)
- 16 8 or 15 (1197477)
- 17 case report.tw. (208126)
- 18 exp Letter/ (850388)
- 19 exp Historical Article/ (323716)
- 20 review of reported cases.pt. (0)
- 21 17 or 18 or 19 or 20 (1370515)
- 22 16 not 21 (1167377)
- 23 exp Macular Edema/ (4207)
- 24 exp Edema/ (34634)
- 25 (macular adj3 (edema or oedema or odema)).ti,ab. (6759)
- 26 exp Retinal Vein/ (1824)
- 27 exp Retinal Vein Occlusion/ (2858)
- 28 ((vein or veins or venous) adj5 (occlusion\$1 or occluded or obstruction\$1 or obstructed or closed or closure\$1 or stricture\$1 or stenosis or stenosed or block or blocks or blockage\$1 or blocking or embolism\$1 or emboli) adj5 retina\$1).ti,ab. (3391)

- 29 (crvo or cvo or rvo or brvo or bvo or crvome).ti,ab. (1587)
- 30 (branch vein adj5 occlu\$).ti,ab. (245)
- 31 (central vein adj5 occlu\$).ti,ab. (216)
- 32 23 or 24 or 25 or 26 or 27 or 28 or 29 or 30 or 31 (46263)
- 33 exp Antibodies, Monoclonal/ (181446)
- 34 antibodies/tu (1951)
- 35 exp Vascular Endothelial Growth Factors/ (37359)
- 36 (vascular endothelial growth or vegf\$ or antivef\$2).ti,ab,rn. (59116)
- 37 (ranibizumab or lucentis or rhufab v2 or 347396-82-1).ti,ab,rn. (1905)
- 38 exp Angiogenesis Inhibitors/ (34530)
- 39 triamcinolone acetonide.mp. or exp Triamcinolone Acetonide/ (5879)
- 40 ivta.ti,ab,rn. (267)
- 41 exp Dexamethasone/ (44286)
- 42 ozurdex.ti,ab,rn. (109)
- 43 exp Light Coagulation/ (10884)
- 44 (photocoagulation or laser coagulation).ti,ab. (8545)
- 45 afibercept.mp. or Vascular Endothelial Growth Factor A/ (35162)
- 46 Eylea.mp. (14)
- 47 or/33-47 (324212)
- 48 Animals/ (5361952)
- 49 (editorial or letter or news).pt. (1376300)
- 50 32 and 47 (4411)
- 51 50 not (48 or 49) (3390)
- 52 limit 51 to english language (2872)
- 53 limit 52 to ed=20101101-20140803 (976)
- 54 22 and 53 (284)