Table 31: Detailed Outcome Data — Clinical Review

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
Research Que	estions 1 and 2		
MIGS Vs. Pha	rmacotherapy		
Vold et al. 2016 ⁵⁸	Clinical effectiveness IOP (mm Hg), mean, 2x iStent and Travoprost respectively: • baseline: 25.5; 25.1 • 1 mo: 15.2; 15.0 • 3 mo: 15.0; 14.4 • 6 mo: 14.2; 13.8 • 12 mo: 13.7; 13.9 • 18 mo: 13.5; 14.6 • 24 mo: 13.8; 15.0 • 30 mo: 13.7; 15.4 • 36 mo: 14.6; 15.3 IOP (mm Hg) in eyes without additional medical therapy (subset), mean (n), 2x iStent and Travoprost respectively: • baseline: 25.5 (54); 25.1 (47) • 1 mo: 15.2 (54); 15.0 (47) • 3 mo: 15.0 (52); 14.1 (44) • 6 mo: 14.2 (50); 13.7 (42) • 12 mo: 13.7 (50); 13.9 (42) • 18 mo: 13.5 (49); 14.5 (42) • 24 mo: 13.8 (47); 15.1 (41) • 30 mo: 13.7 (45); 15.5 (39) • 36 mo: 14.5 (32); 15.7 (28) Proportion of eyes (%) with IOP ≤ 18 mm Hg without additional medical therapy, 2x iStent and Travoprost respectively: • 12 mo: 94; 89 • 24 mo: 90; 87 • 36 mo: 91; 79	IOP tended to be reduced, and BCVA and VF tended to be improved, at follow-up in both groups, but there were no statistical comparisons Safety was favourable in both groups	"In both groups, patients showed substantial IOP reduction and favorable safety through 3 years. these findings support the viability of multiple iStent implantations as an initial treatment option comparable to topical prostaglandin in newly diagnosed POAG," p. 169.



Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	Proportion of eyes (%) with IOP ≤ 15 mm Hg without additional medical therapy, 2x iStent and Travoprost respectively: • 12 mo: 75; 72 • 24 mo: 81; 46		
	• 36 mo: 62; 21		
	 Proportion of eyes (%) with BCVA 20/200 or better, 2x iStent and Travoprost respectively: baseline: 100; 100 36 mo: 100; 100 		
	Proportion of eyes (%) with BCVA 20/100 or better, 2x iStent and Travoprost respectively: • baseline: 96; 100 • 36 mo: 90; 88		
	Proportion of eyes (%) with BCVA 20/40 or better, 2x iStent and Travoprost respectively: • baseline: 74; 83 • 36 mo: 77; 74		
	VF mean deviation (dB) , mean ± SD, 2x iStent and Travoprost respectively: • baseline: −7.5 ± 8.8; −5.8 ± 7.7 • 12 mo: −7.7 ± 8.9; −6.3 ± 7.6 • 24 mo: −6.0 ± 9.7; −5.5 ± 7.7 • 36 mo: −6.8 ± 7.4; −6.2 ± 6.0		
	 VF PSD (dB), mean ± SD, 2x iStent and Travoprost respectively: baseline: 4.6 ± 3.3; 3.5 ± 2.6 12 mo: 4.4 ± 3.1; 3.5 ± 2.6 24 mo: 4.7 ± 3.2; 3.4 ± 2.4 36 mo: 4.3 ± 3.1; 3.4 ± 2.4 		
	Safety Complications in 2x iStent group: • hyphema, n = 1 • iridodialysis with no post-operative ocular sequelae, n = 1 • progression of cataract, n = 11 (20%)		



Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	Complications in Travoprost group: • progression of cataract, n = 8 (17%)		
	Note: There were no statistical comparisons in this study.		
Fea et al. 2014 ³⁶	Clinical effectiveness IOP (mm Hg), mean ± SD, 2x iStent inject and Latanoprost + Timolol respectively (<i>P</i> values NR): • screening (on medications): 21.1 ± 1.7; 20.7 ± 1.7 • baseline (unmedicated): 25.2 ± 1.4; 24.8 ± 1.7 • 1 mo: 13.3 ± 4.1; 12.8 ± 2.6 • 3 mo: 12.8 ± 3.2; 12.5 ± 2.8 • 6 mo: 12.7 ± 3.2; 12.2 ± 2.2 • 9 mo: 12.9 ± 2.9; 12.8 ± 2.9 • 12 mo: 13.0 ± 2.3; 13.2 ± 2.0 Reduction in IOP from screening (mm Hg), mean ± SD, 2x iStent inject and Latanoprost + Timolol respectively (<i>P</i> values NR): • 1 mo: -7.7 ± 4.2; -7.9, 2.9 • 3 mo: -8.3 ± 3.3; -8.1 ± 2.6 • 6 mo: -8.5 ± 2.8; -8.3 ± 2.4 • 9 mo: -8.2 ± 3.0; -7.7, ± 2.8 • 12 mo: -8.1 ± 2.6; -7.3 ± 2.2 Reduction in IOP from baseline (mm Hg), mean ± SD, 2x iStent inject and Latanoprost + Timolol respectively (<i>P</i> values NR): • 1 mo: -11.8 ± 4.2; -12.0 ± 2.9 • 3 mo: -12.4 ± 3.4; -12.3 ± 2.8 • 6 mo: -12.5 ± 3.2; -12.6 ± 2.4 • 9 mo: -12.3 ± 3.0; -11.9 ± 2.8 • 12 mo: -12.2 ± 2.5; -11.6 ± 2.2 Proportion of patients with IOP reduction ≥ 20% at 12 mo vs. unmedicated baseline, n (%), 2x iStent inject and Latanoprost + Timolol respectively: • 89 (94.7%; 95% CI, 88.0 to 98.3); 88 (91.8%; 95% CI, 84.5 to 96.4), <i>P</i> > 0.05	The reduction of IOP was similar between groups across all time points Adverse events were not different between groups The reduction of IOP was similar between groups The reduction	"These data show that the use of iStent inject is at least as effective as two medications, with the clinical benefit of reducing medication burden and assuring continuous treatment with full compliance to implant therapy as well as having a highly favorable safety profile," p. 875. "This study confirms that the iStent inject is a safe and effective implant procedure with a high benefit-to-risk profile and may be a preferable alternative to chronic use of multiple medications in subjects with OAG," p. 881.



Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	Proportion of patients (%) with IOP reduction ≥ 30% at 12 mo vs. unmedicated baseline, 2x iStent inject and Latanoprost + Timolol respectively: • 93.6% (95% CI, 86.6 to 97.6); 88.8 (95% CI, 80.8 to 94.3), P > 0.05		
	Proportion of patients (%) with IOP reduction ≥ 40% at 12 mo vs. unmedicated baseline, 2x iStent inject and Latanoprost + Timolol respectively: • 80.9% (95% CI, 71.4 to 88.2); 75.5 (95% CI, 65.8 to 83.6), P > 0.05		
	Proportion of patients (%) with IOP reduction ≥ 50% at 12 mo vs. unmedicated baseline, 2x iStent inject and Latanoprost + Timolol respectively: • 53.2% (95% CI, 42.6 to 63.6); 35.7 (95% CI, 26.3 to 46.0), P = 0.02		
	 IOP ≤ 18 mm Hg, n (%), 2x iStent inject and Latanoprost + Timolol respectively: 12 mo: 87 (92.6%; 95% CI, 85.3 to 97.0); 88 (89.8%; 95% CI, 82.0 to 95.0), P = NR 		
	 IOP ≤ 15 mm Hg, n (%), 2x iStent inject and Latanoprost + Timolol respectively: 12 mo: 87 (85.1%; 95% CI, 76.3 to 91.6); 88 (81.6%; 95% CI, 72.5 to 88.7), P = NR 		
	 BCVA of 20/40 or better (%), 2x iStent inject and Latanoprost + Timolol respectively: baseline: 84%; 87%, P = NR 12 mo: 79%; 84%, P = NR 		
	Safety Adverse events at any point post-operatively, n (%), 2x iStent inject and Latanoprost + Timolol respectively (<i>P</i> values NR): • eye burning: 0 (0%), 1 (1%) • IOP decompensation: 1 (1%), 0 (0%) • medication allergy: 0 (0%), 1 (1%) • one stent not visible: 1(1%), 0 (0%) • soreness/discomfort: 1 (1%), 0 (0%)		
MIGS Vs. La	ser Therapy		
Fea et al. 2017 ⁶²	Clinical effectiveness IOP (mm Hg), mean ± SD: • Baseline: Hydrus, 23.09 ± 5.08; SLT, 23.18 ± 2.15, between-group P = 0.93	 IOP was not different between groups at baseline or follow-up The reduction in medication use from 	"Both SLT and Hydrus implantation reduced IOP without serious adverse events. Hydrus implantation led to a significant and further

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	Reduction in IOP from baseline (mm Hg), mean ± SD, Hydrus and SLT respectively (all significantly different from baseline at <i>P</i> < 0.001; <i>P</i> values for between-group comparisons): • 1 mo: -4.3 ± 6.79; -6.0 ± 3.29, <i>P</i> = 0.26 • 3 mo: -5.5 ± 6.54; -7.1 ± 2.27, <i>P</i> = 0.27 • 6 mo: -6.7 ± 5.61; -7.3 ± 3.10, <i>P</i> = 0.59 • 12 mo: -6.6 ± 5.62; -7.3 ± 2.53, <i>P</i> = 0.57 Reduction in IOP from baseline (%), mean ± SD, Hydrus and SLT respectively (all significantly different from baseline at <i>P</i> < 0.001; <i>P</i> values for between-group comparisons): • 1 mo: -16 ± 24; -26 ± 14, <i>P</i> = 0.26 • 3 mo: -21 ± 25; -30 ± 9, <i>P</i> = 0.27 • 6 mo: -27 ± 21; -31 ± 12, <i>P</i> = 0.59 • 12 mo: -26 ± 18; -31 ± 10, <i>P</i> = 0.57 • At 12 mo, number (%) of patients with IOP reduction > 20% from baseline: Hydrus, 27 (90%); SLT, 22 (88%) Medications (number), mean ± SD, Hydrus and SLT respectively (<i>P</i> values for between-group comparisons): • baseline: 2.29 ± 0.83; 2.48 ± 0.92, <i>P</i> = 0.42 • 12 mo: 0.9 ± 1.04; 2.0 ± 0.91, <i>P</i> = NR Reduction in medications from baseline (number), mean ± SD, Hydrus and SLT respectively: • 12 mo: -1.4 ± 0.97 (<i>P</i> < 0.05 compared with baseline); -0.5 ± 1.05 (<i>P</i> > 0.05 compared with baseline); difference 0.9 medications/patient; between-group <i>P</i> = 0.001	baseline was greater in the Hydrus vs. SLT group There was no change in VA from baseline to follow-up in either group There were few complications overall, and all complications were transient	reduction in medication dependence at 12 months," p. 120. "the Hydrus device [was] implanted in more severe glaucomatous patients. Nevertheless, the pertinent findings of the present investigation are the following: (i) Hydrus Microstent provided equivalent IOP reduction to SLT at one year of over 7 mm Hg; and (ii) patients treated with the Hydrus Microstent used significantly less medication at 12 months to maintain target IOP," p. 126.
	 Proportion of patients with zero medications at 12 mo (%): Hydrus 47%; SLT, 4%, P = 0.004 		
	 VA (logMAR), mean ± SD, Hydrus and SLT respectively (<i>P</i> values for comparison with baseline where applicable): baseline: 0.25 ± 0.15; 0.30 ± 0.1, <i>P</i> value for between-group comparison <i>P</i> = 0.14 12 mo: 0.22 ± 0.1, <i>P</i> = 0.36; 0.33 ± 0.12, <i>P</i> = 0.34, <i>P</i> value for between-group comparison NR 		

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	Safety Complications, number (%): Hydrus: IOP spike, 2 (6.45%) temporary decrease in VA > 2 lines lasting < 7 d, 3 (9.68%; reasons: corneal edema secondary to IOP spike or hyphema) SLT: none eye discomfort (40%)		
MIGS Vs. And			
Katz et al. 2018 ⁵⁹ and Katz et al. 2015 ⁶⁰	Clinical effectiveness IOP (mm Hg) while on medications unless otherwise specified, mean ± SD, for iStent, 2x iStent, and 3x iStent groups respectively (<i>P</i> values NR): • screening: 19.8 ± 1.3; 20.1 ± 1.6; 20.4 ± 1.8 • baseline (unmedicated): 25.0 ± 1.1; 25.0 ± 1.7; 25.1 ± 1.9 • 1 mo: 12.2 ± 3.1; 12.5 ± 2.7; 12.0 ± 2.7 • 3 mo: 12.8 ± 2.3; 13.0 ± 2.1; 12.8 ± 2.0 • 6 mo: 13.1 ± 1.7; 13.5 ± 2.3; 12.9 ± 2.0 • 12 mo: 14.4 ± 1.2; 12.8 ± 1.4; 12.2 ± 1.5 • 12-13 mo (after 1 mo medication washout): 14.9 ± 1.9; 13.6 ± 2.1; 12.7 ± 2.1 • 18 mo: 15.6 ± 1.5; 13.8 ± 1.3; 12.1 ± 1.2 • 36-37 mo (after 1 mo medication washout): 17.4 ± 0.9; 15.8 ± 1.1; 14.2 ± 1.5 • 42 mo: 15.0 ± 2.8; 15.7 ± 1.0; 14.8 ± 1.3 IOP (mm Hg) for eyes without medication at 18 mo, mean ± SD, for iStent (n = 32), 2x iStent (n = 37), and 3x iStent (n = 35) groups respectively (<i>P</i> values NR): • 15.93 ± 0.90; 14.07 ± 1.00; 12.24 ± 1.12 Mean difference in unmedicated IOP between groups (mm Hg) at 18 mo: • 3x iStent vs. iStent: 3.58, 95% Cl, 2.66 to 4.49, <i>P</i> < 0.001 • 3x iStent vs. 2x iStent: 1.84, 95% Cl, 0.96 to 2.73, <i>P</i> < 0.001 • 2x iStent vs. iStent: 1.73, 95% Cl, 0.98 to 2.64, <i>P</i> < 0.001	The proportion of eyes with an IOP reduction of ≥ 20% from baseline, or with IOP ≤ 18 mm Hg, was similar across groups, but this was not tested statistically Proportionately more eyes in the 2x and 3x iStent groups had an IOP ≤15 mm Hg compared with the iStent group, but this was not tested statistically 18 mo follow-up: IOP was reduced from baseline in all groups, and the reduction was incrementally greater with increasing numbers of iStents	"[] implantation of each additional stent resulted in significantly greater IOP reduction with reduced medication use. Titratability of stents as a sole procedure was shown to be effective and safe, with sustained effect through 18 months postoperatively in OAG not controlled with medication," p. 2313. 60 "The standalone implantation of either single or multiple iStent® device(s) produced safe, clinically meaningful IOP and medication reductions through 42 months postoperatively, with incrementally greater and more sustained reductions in multistent eyes," p. 255. 59
	Reduction in unmedicated IOP from screening at 18 mo , mm Hg (%), for iStent, 2x iStent, and 3x iStent groups respectively (<i>P</i> values NR):	24 mo follow-up: BCVA was not different	

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 -3.94 (-19.5%); -5.99 (-29.5%); -8.19 (-39.7%) Reduction in unmedicated IOP from baseline at 18 mo, mm Hg (%), for iStent, 2x iStent, and 3x iStent groups respectively (<i>P</i> values NR): -9.04 (-36.1%); -10.77 (-43.2%); -12.61 (-50.6%) Unmedicated IOP reduction ≥ 20% from baseline at 12 mo post-operative, n (%) (<i>P</i> values NR): iStent: 33 (89.2%); 95% Cl, 74.6 to 97.0% 2x iStent: 37 (90.2%); 95% Cl, 76.9 to 97.3% 3x iStent: 35 (92.1%); 95% Cl, 78.6 to 98.3% Unmedicated IOP reduction ≥ 20% from baseline at 42 mo post-operative, n/total (%) (<i>P</i> values NR): iStent: 17/28 (61%) 2x iStent: 32/35 (91%) 3x iStent: 32/35 (91%) Unmedicated IOP ≤ 18 mm Hg at 12 mo post-operative, n (%) (<i>P</i> values NR): iStent: 37 (90.2%); 95% Cl, 76.9 to 97.3% 3x iStent: 35 (92.1%); 95% Cl, 78.6 to 98.3% Unmedicated IOP ≤ 15 mm Hg at 12 mo post-operative, n (%) (<i>P</i> values NR): iStent: 24 (64.9%); 95% Cl, 78.6 to 98.3% Unmedicated IOP ≤ 15 mm Hg at 12 mo post-operative, n (%) (<i>P</i> values NR): iStent: 35 (85.4%); 95% Cl, 78.6 to 98.3% Unmedicated IOP ≤ 15 mm Hg at 12 mo post-operative, n (%) (<i>P</i> values NR): iStent: 35 (85.4%); 95% Cl, 78.6 to 98.3% Number of eyes (%) on medication, for iStent, 2x iStent, and 3x iStent groups respectively (<i>P</i> values NR): screening: 38 (100%); 41 (100%); 40 (100%) baseline: 0 (0%); 0 (0%); 0 (0%) 1 mo: 0 (0%); 0 (0%); 0 (0%) 1 mo: 0 (0%); 1 (2.4%); 1 (2.5%) 12 mo: 4 (10.8%); 4 (9.8%); 3 (7.9%) 	from baseline in any group 42 mo follow-up: Proportionately more eyes in the 2x and 3x iStent groups had an IOP reduction of ≥ 20% from baseline compared with the iStent group, but this was not tested statistically The change in VF from screening to 42 mo follow-up was not significantly different from between groups; whether absolute VF was significantly different within groups was not tested statistically Overall: Medications were stopped immediately after surgery and re-added in a small proportion of patients in each group to control IOP There were no serious complications	



Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
 12-13 mo (after 1 mo medication washout): 0 (0%); 0 (0%); 0 (0%) 18 mo: 4 (11.1%); 4 (9.8%); 3 (7.9%) VF, mean deviation (dB), mean ± SD, for iStent, 2x iStent, and 3x iStent groups respectively (P values NR): screening: -4.72 ± 4.42; -5.20 ± 5.65; -4.81 ± 4.22 18 mo: -4.9 ± 4.71; -5.96 ± 5.84; -5.24 ± 4.13 42 mo: -6.43 ± 4.95; -7.11 ± 5.78; -6.91 ± 5.40 Change in VF mean deviation (db) at 42 mo vs. screening for iStent, 2x iStent, and 3x iStent groups respectively (between-group comparison, P = 0.40) -1.42: -1.26: -2.08 		
 BCVA: "In general, BCVA [] values did not appear to be different at 2 years postoperatively vs preoperative levels" p. 2317⁶⁰ Values reported as proportion of eyes with BCVA 20/40 or better, 20/100 or better, and 20/200 or better at baseline and months 1, 3, 6, 12, 18, and 42 (with no statistical analyses) Safety Intraoperative adverse events: None 		
Perioperative adverse events: None Secondary surgical interventions: Cataract surgery by 18 mo: iStent, 2; 2x iStent, 0; 3x iStent, 2 Cataract surgery by 42 mo: iStent, 5; 2x iStent, 2; 3x iStent, 3		
• •		
Clinical effectiveness IOP (mm Hg), mean ± SD, ECP and GDD-2 respectively (<i>P</i> values for between-group differences): • baseline: 24.0 ± 6.2; 23.5 ± 8.1, <i>P</i> = 0.85 • 3 mo: 13.0 ± 3.4; 14.2 ± 5.5, <i>P</i> = 0.19 • 6 mo: 14.9 ± 4.9; 15.2 ± 6.3, <i>P</i> = 0.98 • 12 mo: 15.4 ± 3.8; 14.2 ± 4.0, <i>P</i> = 0.61 • 24 mo: 18.1 ± 7.4; 14.6 ± 3.8, <i>P</i> = 0.14	IOP and number of medications were significantly reduced from baseline in both ECP and GDD-2 groups at 3 to 24 mo follow-up, but there were no differences between groups at any time point.	"Both ECP and GDD-2 are both effective as second surgeries for refractory glaucoma that has failed a prior aqueous shunt," p. 241.
	 12-13 mo (after 1 mo medication washout): 0 (0%); 0 (0%); 0 (0%) 18 mo: 4 (11.1%); 4 (9.8%); 3 (7.9%) VF, mean deviation (dB), mean ± SD, for iStent, 2x iStent, and 3x iStent groups respectively (P values NR): screening: -4.72 ± 4.42; -5.20 ± 5.65; -4.81 ± 4.22 18 mo: -4.9 ± 4.71; -5.96 ± 5.84; -5.24 ± 4.13 42 mo: -6.43 ± 4.95; -7.11 ± 5.78; -6.91 ± 5.40 Change in VF mean deviation (db) at 42 mo vs. screening for iStent, 2x iStent, and 3x iStent groups respectively (between-group comparison, P = 0.40) -1.42; -1.26; -2.08 BCVA: "In general, BCVA [] values did not appear to be different at 2 years postoperatively vs preoperative levels" p. 2317⁸⁰ Values reported as proportion of eyes with BCVA 20/40 or better, 20/100 or better, and 20/200 or better at baseline and months 1, 3, 6, 12, 18, and 42 (with no statistical analyses) Safety Intraoperative adverse events: None Perioperative adverse events: None Secondary surgical interventions: Cataract surgery by 18 mo: iStent, 2; 2x iStent, 0; 3x iStent, 2 Cataract surgery by 42 mo: iStent, 5; 2x iStent, 0; 3x iStent, 2 Cataract surgery by 42 mo: iStent, 5; 2x iStent, 2; 3x iStent, 3 ation Surgery coma Drainage Device Clinical effectiveness IOP (mm Hg), mean ± SD, ECP and GDD-2 respectively (P values for between-group differences): baseline: 24.0 ± 6.2; 23.5 ± 8.1, P = 0.85 3 mo: 13.0 ± 3.4; 14.2 ± 5.5, P = 0.19 6 mo: 14.9 ± 4.9; 15.2 ± 6.3, P = 0.98 12 mo: 15.4 ± 3.8; 14.2 ± 4.0, P = 0.61 	 12-13 mo (after 1 mo medication washout): 0 (0%); 0 (0%); 0 (0%) 18 mo: 4 (11.1%); 4 (9.8%); 3 (7.9%) VF, mean deviation (dB), mean ± SD, for iStent, 2x iStent, and 3x iStent groups respectively (P values NR): screening: -4.72 ± 4.42; -5.20 ± 5.65; -4.81 ± 4.22 18 mo: -4.9 ± 4.71; -5.96 ± 5.84; -5.24 ± 4.13 42 mo: -6.43 ± 4.95; -7.11 ± 5.78; -6.91 ± 5.40 Change in VF mean deviation (db) at 42 mo vs. screening for iStent, 2x iStent, and 3x iStent groups respectively (between-group comparison, P = 0.40) -1.42; -1.26; -2.08 BCVA: "In general, BCVA [] values did not appear to be different at 2 years postoperatively vs preoperative levels" p. 2317⁶⁰ Values reported as proportion of eyes with BCVA 20/40 or better, 20/100 or better, and 20/200 or better at baseline and months 1, 3, 6, 12, 18, and 42 (with no statistical analyses) Safety Intraoperative adverse events: None Secondary surgical interventions: Cataract surgery by 18 mo: iStent, 2; 2x iStent, 0; 3x iStent, 2 Cataract surgery by 42 mo: iStent, 5; 2x iStent, 2; 3x iStent, 3 atom Drainage Device Clinical effectiveness IOP (mm Hg), mean ± SD, ECP and GDD-2 respectively (P values for between-group differences): • baseline: 24.0 ± 6.2; 23.5 ± 8.1, P = 0.85 • 3 mo: 13.0 ± 34; 14.2 ± 5.5, P = 0.19 • 6 mo: 14.9 ± 4.9; 15.2 ± 6.3, P = 0.98 • 12 mo: 15.4 ± 3.8; 14.2 ± 4.0, P = 0.61 • 24 mo: 18.1 ± 7.4; 14.6 ± 3.8, P = 0.14



Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	between-group comparison; all significant vs. baseline at <i>P</i> < 0.001 unless otherwise stated): • 3 mo: 11.0 ± 7.7; 9.3 ± 8.9, <i>P</i> = 0.29 • 6 mo: 8.7 ± 8.6; 8.3 ± 11.1, <i>P</i> = 0.64 • 12 mo: 7.8 ± 6.5; 9.3 ± 8.3, <i>P</i> = 0.66 • 24 mo: 7.0 ± 8.8 (<i>P</i> < 0.05 for comparison with baseline); 8.9 ± 7.6, <i>P</i> = 0.52	different between groups	
	 % IOP reduction from baseline (%), mean ± SD, ECP and GDD-2 respectively (<i>P</i> values for between-group comparison; all significant vs. baseline at <i>P</i> < 0.001 unless otherwise stated): 3 mo: 42.0 ± 20.8; 39.6 ± 20.6, <i>P</i> = 0.20 6 mo: 32.4 ± 29.3; 35.3 ± 28.6, <i>P</i> = 0.33 12 mo: 30.8 ± 21.6; 39.6 ± 30.7, <i>P</i> = 0.56 24 mo: 25.5 ± 34.2 (<i>P</i> < 0.05 for comparison with baseline); 38.7 ± 27.8, <i>P</i> = 0.50 		
	 Medications (number), median (range), ECP and GDD-2 respectively (<i>P</i> values for between-group comparisons): baseline: 3 (0 to 4); 4 (0 to 5), <i>P</i> = 0.22 3 mo: 2 (0 to 5); 2 (0 to 4), <i>P</i> = 0.88 6 mo: 1 (0 to 4); 2 (0 to 5), <i>P</i> = 0.13 12 mo: 1 (0 to 5); 2 (0 to 4), <i>P</i> = 0.37 24 mo: 2 (0 to 5); 3 (0 to 5), <i>P</i> = 0.61 		
	Medication reduction from baseline (number), median (mean \pm SD), ECP and GDD-2 respectively (P values for between-group comparisons): • 3 mo: 1 (1.4 \pm 1.3); 2 (1.6 \pm 1.8), P = 0.57 • 6 mo: 1 (1.7 \pm 1.4); 2 (1.4 \pm 1.6), P = 0.64 • 12 mo: 2 (1.6 \pm 1.5); 1 (1.5 \pm 1.8), P = 0.74 • 24 mo: 1 (1.5 \pm 1.9); 1 (0.9 \pm 1.6), P = 0.50		
	 Safety There were complications in both groups (hypotony, corneal oedema, high IOP, inflammation, CME), but no difference between groups, P > 0.05 		
Lima et al. 2004 ⁶¹	Clinical effectiveness IOP (mm Hg), mean ± SD, ECP and AGI respectively (<i>P</i> values for between-group comparisons): • baseline: 41.61 ± 3.42; 41.32 ± 3.03, <i>P</i> = 0.5 • 1 wk: 9.5 ± 5.23; 5.38 ± 4.57, <i>P</i> = 0.04	IOP was significantly higher in the ECP vs. AGI group at 1 wk follow-up, not different between groups at 1 mo,	"[ECP] may be a safe and efficient modality in treating refractory glaucoma compared with [AGI]," p. 237.

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 1 mo: 11.38 ± 4.99; 10.82 ± 7.60, <i>P</i> = 0.4 2 mo: 13.41 ± 7.11; 21.88 ± 6.00, <i>P</i> = 0.03 3 mo: 13.57 ± 6.22; 20.4 ± 5.70, <i>P</i> = 0.01 4 mo: 13.28 ± 3.88; 16.53 ± 1.50, <i>P</i> = 0.03 5 mo: 13.64 ± 2.88; 17.1 ± 5.70, <i>P</i> = 0.08 6 mo: 14.00 ± 3.62; 17.78 ± 5.50, <i>P</i> = 0.06 12 mo: 15.45 ± 6.54; 16.59 ± 5.37, <i>P</i> = 0.4 18 mo: 13.93 ± 5.41; 14.38 ± 1.83, <i>P</i> = 0.5 24 mo: 14.07 ± 7.21 (compared with baseline, <i>P</i> < 0.001); 14.73 ± 6.44 (compared with baseline, <i>P</i> < 0.001), <i>P</i> = 0.7 IOP > 6 mm Hg and < 21 mm Hg (with or without medication), %, for ECP and AGI respectively: 12 mo: 82.35%; 76.47%, <i>P</i> = 0.1 24 mo: 73.52%; 70.58%, <i>P</i> = 0.5 Medications (number), mean ± SD (range), ECP and AGI respectively (<i>P</i> values for between-group comparisons): baseline: 3.0 ± 1.3; 3.5 ± 1.0, <i>P</i> = 0.7 24 mo: 2.0 ± 1.2; 2.5 ± 1.3, <i>P</i> = 0.3 VA (LogMar), mean ± SD (range), ECP and AGI respectively (<i>P</i> values for between-group comparisons): baseline: 0.67 ± 0.24; 0.69 ± 0.25, <i>P</i> = 0.8 12 mo: 0.74 ± 0.42; 0.98 ± 0.61, <i>P</i> = 0.1 Safety Complications during study, n (%), ECP and AGI respectively (<i>P</i> values for between-group comparisons): choroid detachment: 1 (2.94%); 6 (17.64%); <i>P</i> = 0.1 shallow anterior chamber: 0 (0%); 6 (17.64%); <i>P</i> = 0.0 hyphema: 6 (17.64%); 5 (14.7%); <i>P</i> = 0.05 failure of the corneal graft: 1 (2.94%); 4 (11.76%); <i>P</i> = 0.3 tube block: 0 (0%); 2 (5.88%); <i>P</i> = 0.4 corneal touch: 0 (0%); 2 (5.88%); <i>P</i> = 0.4 retina detachment: 1 (2.94%); 2 (5.88%); <i>P</i> = 0.4 retina detachment: 1 (2.94%); 2 (5.88%); <i>P</i> = 1.0 	significantly lower in ECP vs. AGI at 2, 3, and 4 mo, and not different between groups thereafter up to 24 mo; IOP was significantly reduced from baseline at 24 mo in both groups The proportion of patients meeting the criteria for success was similar between groups at 12 and 24 mo follow-up The number of medications was not significantly different between groups at 24 mo follow-up VA was not different between groups at 12 mo follow-up Complications were similar between groups, except for shallow anterior chamber, which occurred in significantly more patients in the AGI group	"There was no difference in the success rate between the [AGI] e and ECP in refractory glaucoma. The eyes that underwent Ahmed tube shunt implantation had more complications than those treated with ECP," p. 233.

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 inflammatory precipitates in anterior chamber: 4 (11.76%); 0 (0%); P = 0.1 tube exposure: 0 (0%); 2 (5.88%); P = 0.4 hypotony: 1 (2.94%); 0 (0%); P = 1.0 endophthalmitis: N/A; 1 (2.94%); P = 1.0 phthisis bulbi: 1 (2.94%); 0 (0%); P = 1.0 Note: Some potential complications were not applicable to both interventions. 		
Trabectome (or 2x iStent Inject) Vs. Trabeculectomy		
Pahlitzsch et al. 2017 ²⁵	Clinical effectiveness IOP (mm Hg), mean; Trabectome, 2x iStent Inject, MIGS (Trabectome and 2x iStent Inject groups combined), and Trabeculectomy respectively (<i>P</i> values for comparison with baseline unless otherwise specified): • baseline: 19.1; 21.3; 20.5; 28.0; Trabeculectomy vs. MIGS, <i>P</i> = 0.097 • 1 d: 12.0 (<i>P</i> < 0.001); 11.7 (<i>P</i> < 0.001); 12.1 (<i>P</i> = NR); 12.7 (<i>P</i> < 0.001); Trabeculectomy vs. MIGS, <i>P</i> = 0.802 • 6 wk: 17.5 (<i>P</i> = 0.217); 15.3 (<i>P</i> = 0.005); 16.7 (<i>P</i> = NR); 13.6 (<i>P</i> = 0.003); Trabeculectomy vs. MIGS, <i>P</i> = 0.046 • 3 mo: 16.5 (<i>P</i> = 0.063); 14.1 (<i>P</i> = 0.005); 15.7 (<i>P</i> = NR); 13.3 (<i>P</i> = 0.001); Trabeculectomy vs. MIGS, <i>P</i> = 0.046 • 6 mo: 14.7 (<i>P</i> = 0.001); 16.0 (<i>P</i> = 0.068); 14.8 (<i>P</i> = NR); 12.9 (<i>P</i> = 0.005); Trabeculectomy vs. MIGS, <i>P</i> = 0.400 Medications (number), mean; Trabectome, 2x iStent Inject, MIGS (Trabectome and 2x iStent Inject groups combined), and Trabeculectomy respectively (<i>P</i> values for comparison with baseline unless otherwise specified): • baseline: 2.62; 2.45; 2.5; 2.32; Trabeculectomy vs. MIGS, <i>P</i> = 0.476 • 1 d: 2.53 (<i>P</i> = 0.317); 2.00 (<i>P</i> = 0.024); 1.88 (<i>P</i> = NR); 0.21 (<i>P</i> = 0.003); Trabeculectomy vs. MIGS, <i>P</i> < 0.001 • 6 wk: 2.44 (<i>P</i> = 0.070); 1.90 (<i>P</i> = 0.026); 1.79 (<i>P</i> = NR); 0.44 (<i>P</i> = 0.001); Trabeculectomy vs. MIGS, <i>P</i> < 0.001 • 3 mo: 2.36 (<i>P</i> = 0.132); 1.50 (<i>P</i> = 0.157); 1.64 (<i>P</i> = NR); 0.61 (<i>P</i> = 0.001); Trabeculectomy vs. MIGS, <i>P</i> < 0.001	IOP was significantly reduced from baseline in the 2x iStent Inject and Trabeculectomy groups (but not Trabectome) at 6 wk and 3 mo, and in Trabectome and Trabeculectomy (but not 2x iStent Inject) groups at 6 mo, but there was no significant difference between groups at 6 mo IOP was significantly lower in the Trabeculectomy vs. MIGS (combined Trabectome and 2x iStent Inject) groups at 6 wk and 3 mo, but not 6 mo The number of medications was significantly reduced from baseline in the 2x iStent Inject group at 1 d and 6 wk but not 3 mo or 6 mo follow-up, and in the Trabeculectomy group at all follow-up time points, but was not different from	"In this study cohort, the QoL can be maintained by all three surgical techniques. Patients, however, need lower numbers of topical medications in [Trabeculectomy], which would impact QoL even though it is not included in the NEI-VFQ-25. The decision of the most appropriate surgical technique should be made by including single QoL categories, IOP and glaucoma medication outcome," p. 351.

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 VA (logMAR), mean; Trabectome, 2x iStent Inject, MIGS (Trabectome and 2x iStent Inject groups combined), and Trabeculectomy respectively (<i>P</i> values for comparison with baseline unless otherwise specified): baseline: 0.3; 0.3; 0.3; 0.3; 0.32; Trabeculectomy vs. MIGS, <i>P</i> = 0.609 1 d: 0.3 (<i>P</i> = 0.469); 0.2 (<i>P</i> = 0.452); 0.3 (<i>P</i> = NR); 0.4 (<i>P</i> = 0.028); Trabeculectomy vs. MIGS, <i>P</i> = 0.011 6 wk: 0.2 (<i>P</i> = 0.030); 0.16 (<i>P</i> = 0.018); 0.2 (<i>P</i> = NR); 0.32 (<i>P</i> = 0.721); Trabeculectomy vs. MIGS, <i>P</i> = 0.223 3 mo: 0.25 (<i>P</i> = 0.210); 0.16 (<i>P</i> = 0.204); 0.22 (<i>P</i> = NR); 0.4 (<i>P</i> = 0.553); Trabeculectomy vs. MIGS, <i>P</i> = 0.284 6 mo: 0.26 (<i>P</i> = 0.202); 0.2 (<i>P</i> = 0.273); 0.22 (<i>P</i> = NR); 0.3 (<i>P</i> = 0.905); Trabeculectomy vs. MIGS, <i>P</i> = 0.907 Quality of life parameters: Note: Data for all QoL parameters are presented in order of Trabectome, 2x iStent Inject, MIGS, and Trabeculectomy groups, respectively. QoL – General health at 6 mo post-operative (scale from 0 to 100), mean ± SD: 47.0 ± 13.7; 45.0 ± 19.1; 46.3 ± 15.5; 43.0 ± 21.0 P values: Trabeculectomy vs. MIGS, 0.546; Trabeculectomy vs. Trabectome vs. 2x iStent Inject, 0.702; Trabeculectomy vs. Trabectome, 0.442; Trabeculectomy vs. 2x iStent Inject, 0.883 QoL – General vision at 6 mo post-operative (scale from 0 to 100), mean ± SD: 69.2 ± 16.7; 63.9 ± 18.1; 67.5 ± 17.2; 61.6 ± 21.5 P values: Trabeculectomy vs. MIGS, 0.190; Trabeculectomy vs. Trabectome vs. 2x iStent Inject, 0.197; Trabeculectomy vs. Trabectome, 0.112; Trabeculectomy vs. 2x iStent Inject, 0.707 QoL – Ocular pain at 6 mo post-operative (scale from 0 to 100), mean ± SD: 71.0 ± 22.0; 71.8 ± 25.6; 71.2 ± 23.0; 75.0 ± 25.7 P values: Trabeculectomy vs. MIGS, 0.365; Trabeculectomy vs. Trabectome vs. 2x iStent Inject, 0.619; Trabeculectomy vs. Trabectome, 0.323; Trabeculectomy vs. 2x iStent Inject, 0.619; Trabeculectomy vs. 36.0.0 ± 28.5 75.9 ± 25.6;	baseline in the Trabectome group at any follow-up time point The number of medications was lower in Trabeculectomy vs. MIGS at all follow-up time points VA was significantly greater in Trabeculectomy vs. MIGS at 1 d post-operative, but was not different between groups at all other time points None of the 12 QoL parameters were significantly different between Trabeculectomy and MIGS groups at 6 mo There was only one between-group difference in any QoL parameter at 6 mo; "colour vision" was significantly higher in Trabectome vs. Trabeculectomy	

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 P values: Trabeculectomy vs. MIGS, 0.140; Trabeculectomy vs. Trabectome vs. 2x iStent Inject, 0.296; Trabeculectomy vs. Trabectome, 0.116; Trabeculectomy vs. 2x iStent Inject, 0.418 		
	 QoL – Distance activities at 6 mo post-operative (scale from 0 to 100), mean ± SD: 73.4 ± 25.3; 65.2 ± 26.7; 70.8 ± 25.8; 61.6 ± 28.7 P values: Trabeculectomy vs. MIGS, 0.143; Trabeculectomy vs. Trabectome vs. 2x iStent Inject, 0.172; Trabeculectomy vs. Trabectome, 0.076; Trabeculectomy vs. 2x iStent Inject, 0.670 		
	 QoL – Social functioning at 6 mo post-operative (scale from 0 to 100), mean ± SD: 85.7 ± 22.0; 82.2 ± 27.1; 84.6 ± 23.5; 72.5 ± 30.8 P values: Trabeculectomy vs. MIGS, 0.060; Trabeculectomy vs. Trabectome vs. 2x iStent Inject, 0.160; Trabeculectomy vs. Trabectome, 0.059; Trabeculectomy vs. 2x iStent Inject, 0.232 		
	 QoL – Mental health at 6 mo post-operative (scale from 0 to 100), mean ± SD: 73.5 ± 27.0; 70.5 ± 27.0; 72.5 ± 26.8; 64.5 ± 29.7 P values: Trabeculectomy vs. MIGS, 0.157; Trabeculectomy vs. Trabectome vs. 2x iStent Inject, 0.297; Trabeculectomy vs. Trabectome, 0.129; Trabeculectomy vs. 2x iStent Inject, 0.441 		
	 QoL – Role difficulties at 6 mo post-operative (scale from 0 to 100), mean ± SD: 71.5 ± 30.6; 64.3 ± 35.6; 69.2 ± 32.2; 67.0 ± 33.2 P values: Trabeculectomy vs. MIGS, 0.749; Trabeculectomy vs. Trabectome vs. 2x iStent Inject, 0.760; Trabeculectomy vs. Trabectome, 0.603; Trabeculectomy vs. 2x iStent Inject, 0.888 		
	 QoL – Dependency at 6 mo post-operative (scale from 0 to 100), mean ± SD: 85.4 ± 22.5; 82.4 ± 27.5; 84.5 ± 23.9; 75.3 ± 36.1 P values: Trabeculectomy vs. MIGS, 0.312; Trabeculectomy vs. Trabectome vs. 2x iStent Inject, 0.588; Trabeculectomy vs. Trabectome, 0.308; Trabeculectomy vs. 2x iStent Inject, 0.533 		
	QoL – Driving at 6 mo post-operative (scale from 0 to 100), mean ± SD: • 76.2 ± 24.6; 42.5 ± 45.3; 65.0 ± 36.0; 54.5 ± 39.8 ∘ P values: Trabeculectomy vs. MIGS, 0.421; Trabeculectomy vs. Trabectome vs. 2x iStent		



Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	Inject, 0.143; Trabeculectomy vs. Trabectome, 0.138; Trabeculectomy vs. 2x iStent Inject, 0.537		
	 QoL - Colour vision at 6 mo post-operative (scale from 0 to 100), mean ± SD: 94.1 ± 13.1; 85.5 ± 26.7; 91.5 ± 18.6; 81.2 ± 28.7 P values: Trabeculectomy vs. MIGS, 0.053; Trabeculectomy vs. Trabectome vs. 2x iStent Inject, 0.102; Trabeculectomy vs. Trabectome, 0.031; Trabeculectomy vs. 2x iStent Inject, 0.419 		
	QoL – Peripheral vision at 6 mo post-operative (scale from 0 to 100), mean ± SD: • 72.0 ± 27.9; 67.1 ± 30.1; 70.5 ± 28.4; 57.2 ± 33.3 ∘ P values: Trabeculectomy vs. MIGS, 0.089; Trabeculectomy vs. Trabectome vs. 2x iStent Inject, 0.194; Trabeculectomy vs. Trabectome, 0.069; Trabeculectomy vs. 2x iStent Inject, 0.351		
	Safety None		
Jea et al. 2012 ⁶⁴	Clinical effectiveness IOP (mm Hg), mean \pm SD, Trabectome and Trabeculectomy, respectively, P values for between-group comparisons: • baseline: 28.1 ± 8.6 ; 26.3 ± 10.9 , $P = 0.190$ • 1 mo: 19.8 ± 7.5 ; 10.4 ± 5.9 , $P < 0.001$ • 3 mo: 18.2 ± 6.0 ; 12.0 ± 6.7 , $P < 0.001$ • 6 mo: 18.3 ± 5.6 ; 11.3 ± 4.8 , $P < 0.001$ • 12 mo: 17.4 ± 5.9 ; 12.2 ± 5.4 , $P < 0.001$ • 18 mo: 17.0 ± 4.6 ; 12.0 ± 5.1 , $P < 0.001$ • 24 mo: 15.9 ± 4.5 , 43.5% reduction from baseline; 10.2 ± 4.1 ; 61.3% reduction from baseline, $P < 0.001$ • 30 mo: 16.6 ± 7.7 ; 10.0 ± 3.6 , $P = 0.001$ Medications (number), mean \pm SD, Trabectome and Trabeculectomy, respectively, P values for between-group comparisons: • Baseline: 3.3 ± 1.3 ; 3.4 ± 1.0 , $P = 0.289$ • 1 mo: 2.6 ± 1.4 ; 0.4 ± 1.0 , $P < 0.001$ • 3 mo: 2.8 ± 1.4 ; 0.4 ± 1.0 , $P < 0.001$	IOP and number of medications tended to be reduced from baseline in both groups, but this was not tested statistically IOP and number of medications were not different between groups at baseline but were significantly lower in the Trabeculectomy vs. Trabectome group at all follow-up time points VA was not different from baseline at 12 mo or 24 mo in either group, but was significantly better in the Trabectome vs. Trabeculectomy group at all time points	"Trabeculectomy had a lower absolute IOP at all time points and fewer antiglaucoma medications. Although trabeculectomy showed clear superiority to [Trabectome] with regard to effect on IOP, there was the opposite result with regard to complications," p. 41.



Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 12 mo: 1.8 ± 1.3; 0.7 ± 1.2, <i>P</i> < 0.001 18 mo: 2.0 ± 1.5; 0.8 ± 1.2, <i>P</i> < 0.001 24 mo: 2.2 ± 1.6; 0.5 ± 1.0, <i>P</i> < 0.001 30 mo: 2.3 ± 1.8; 0.4 ± 1.0, <i>P</i> < 0.001 VA (LogMAR), mean ± SD, Trabectome and Trabeculectomy, respectively (<i>P</i> values for comparison with baseline unless otherwise stated): baseline: 0.34 ± 0.40; 0.63 ± 0.82, between-group comparison <i>P</i> = 0.001 12 mo: 0.36 ± 0.26 (<i>P</i> = 0.753); 0.72 ± 0.81 (<i>P</i> = 0.462), between-group comparison <i>P</i> = 0.001 24 mo: 0.39 ± 0.31 (<i>P</i> = 0.551); 0.78 ± 0.66 (<i>P</i> = 0.356), between-group comparison <i>P</i> = 0.001 There was no significant difference between groups in lines of Snellen VA lost (<i>P</i> = 0.055). Significantly fewer patients in the Trabectome group (4.3%) lost ≥ 3 Snellen VA lines compared with patients in the Trabeculectomy group (12.7%; <i>P</i> = 0.028). Safety Post-operative complications, n (%), Trabectome and Trabeculectomy, respectively, <i>P</i> values for between-group comparisons where reported: early hypotony: 0 (0%); 10 (9.8%) persistent hypotony: 0 (0%); 12 (11.8%) shallow anterior chamber: 0 (0%); 8 (7.8%) choroidals: 0 (0%); 4 (3.9%) early IOP spike: 4 (3.5%); 3 (2.9%) hyphema: 115 (100.0%); 3 (2.9%) cyclodialysis cleft: 1 (0.9%); 0 (0%) cystoid macular edema: 0 (0%); 1 (1.0%) corneal abrasion: 0 (0%); 1 (1.0%) total number of patients with complications including hyphema: 115 (100.0%); 39 (38.2%), <i>P</i> < 0.001 Total number of patients with complications excluding hyphema: 5 (4.3%); 36 (35.3%), <i>P</i> < 0.001 	With the exception of hyphema, significantly more complications were reported in the Trabeculectomy group More additional glaucoma procedures were performed after Trabectome than Trabeculectomy	

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	Additional glaucoma procedures, n (%), Trabectome and Trabeculectomy, respectively, P values for between-group comparisons where reported: • Trabeculectomy with MMC: 24 (20.8%); 0 (0%) • BGI: 18 (15.6%); 5 (4.9%) • repeated Trabectome: 4 (3.5%); 0 (0%) • combined Trabectome with phacoemulsification: 1 (0.9%); 0 (0%) • phacotrabeculectomy: 1 (0.9%); 0 (0%) • express shunt: 1 (0.9%); 0 (0%) • ECP: 1 (0.9%); 0 (0%) • needle revision of Trabeculectomy with MMC: 0 (0%); 3 (2.9%) • Trabectome: 0 (0%); 2 (2.0%) • SLT: 0 (0%); 1 (1.0%) • Total number of patients with additional glaucoma procedures and surgeries: 50 (43.5%); 11 (10.8%), P < 0.001		
Xen45 Vs. Tra	abeculectomy		
Schlenker et al. 2017 ⁶⁵	Clinical effectiveness IOP (mm Hg) at last follow-up, median [IQR]: • last observation carried forward: Xen45, 13.0 [11.0 to 16.0]; Trabeculectomy, 13.0 [11.0 to 16.0], P = 0.98 • censoring for reoperation: Xen45, 13.0 [10.0 to 15.0]; Trabeculectomy, 13.0 [10.0 to 16.0], P = 0.32 Medication use (percentage of eyes) at 1 y follow-up: • crude: Xen45 (n = 111), 25.1%, 95% CI, 17.3 to 35.0; Trabeculotomy (n = 74), 36.0%, 95% CI 24.9 to 48.9; P = NR • Last observation carried forward: Xen45, 23.8%, 95% CI, 13.9 to 37.6; Trabeculotomy, 33.5%, 95% CI 20.2 to 50.0 Medication use (number) at last follow-up using last observation carried forward, median [IQR]: • Xen45, 0.0 [0.0 to 1.0]; Trabeculectomy, 0.0 [0.0 to 0.0], P = NR BCVA (logMAR) at last follow-up or before reoperation, median [IQR]: • Xen45, 0.2 [0.1 to 0.5]; Trabeculectomy, 0.3 [0.1 to 0.5], P = 0.24 Characteristics associated with surgical failure: • The following were not associated with surgical failure: Xen45 vs. Trabeculectomy, age < 75	IOP, medication use, and BCVA were similar between groups at follow-up There tended to be more post-surgical interventions and complications in the Trabeculectomy group (but this was not tested statistically) There tended to be more reoperations in the Xen45 group, but this did not reach statistical significance	"There was no detectable difference in risk of failure and safety profiles between standalone ab interno [Xen45] with MMC and trabeculectomy with MMC," p. 1579.



Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	y, female, poor preoperative vision (VA of 0.4 logarithm of the minimum angle of resolution or worse), preoperative IOP > 21 mm Hg, moderate or advanced vs. mild disease based on visual field MD (–6 cut-off), pseudophakia, prior LPI, prior trabeculoplasty.		
	 Effect Modification: Eyes with preoperative IOP > 21 mm Hg tended to do better with Xen45 relative to Trabeculectomy; HR, 0.70; 95% CI, 0.43 to 1.12; eyes with preoperative IOP ≤ 21 mm Hg tended to do better with Trabeculectomy relative to Xen45; HR, 1.78; 95% CI, 0.97 to 3.27; interaction between preoperative IOP and intervention, P = 0.016 Eyes with preoperative BCVA of > 0.4 logMAR tended to do better with Xen45 relative to Trabeculectomy; HR, 0.38; 95% CI, 0.16 to 0.89; eyes with BCVA of ≤ 0.4 logMAR or worse tended to do better with Trabeculectomy relative to Xen45; HR, 1.33; 95% CI, 0.86 to 2.05; interaction between preoperative BCVA and intervention, P = 0.010 		
	Safety Post-operative interventions, number, Xen45, Trabeculectomy (between-group comparison, P = NR): • needling: 80, 52 • laser suture lysis: not relevant for intervention, 84 • anterior-chamber reformation: 22, 13 • bleb repair/conjunctival suturing: 2, 10 • Iris sweep/synechiolysis: 3, 4 • YAG to implant/ostomy: 3, 2 • MMC injection: 2, 0 • Xen45 reposition: 2, not relevant for intervention • iridoplasty: 2, 0 • laser to ostomy: not relevant to intervention, 0 • bleb cautery: 1, 0 • Total: Xen45, 117; Trabeculectomy, 165		
	Post-operative complications at > 1 mo, number Xen45, Trabeculectomy (between-group comparison, P = NR): • leak/dehiscence: 3, 12 • hyphema: 2, 2 • vitreous hemorrhage: 2, 1 • choroidals or choroidal folds: 1, 2		



Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	∘ retinal surgery: 0 (0.0%), 1 (0.6%) ∘ corneal surgery: 0 (0.0%), 0 (0.0%)		
Research Qu	estions 3 and 4		
MIGS + Catar	act Surgery Vs. Cataract Surgery Alone		
ECP + Phaco	Vs. Phaco Alone		
Kang et al. 2017 ⁷²	Clinical effectiveness IOP (mm Hg), mean ± SD, ECP + Phaco and Phaco, respectively (<i>P</i> values for comparison with baseline, where reported): • baseline: 20.4 ± 6.25; NR • follow-up: 14.4 ± 3.95 (<i>P</i> = 0.0000004); NR Glaucoma medications (number), mean ± SD, ECP + Phaco and Phaco, respectively (<i>P</i> values for comparison with baseline, where reported): • baseline: 2.7 ± 0.9; NR • follow-up: 1.9 ± 1.3 (<i>P</i> = 0.001); NR VA at follow-up (range 6 wk to 2 y 6 mo), number of eyes (%) compared with preoperative, ECP + Phaco and Phaco, respectively; no statistical comparisons: • improved: 47 (75.8); 54 (87.1) • same: 12 (19.4); 7 (11.3) • worsened: 3 (4.8); 1 (1.61) Safety Post-operative complications in ECP + Phaco (n = 7 eyes; 11.3%): • four eyes developed uveitis; more intensive topical steroids were required; all eyes had visual acutities of 6/6 at last follow-up • one eye developed fibrinous uveitis with a pupillary membrane; YAG laser required • one eye required intracameral tissue plasminogen activator injection with synechiolysis at 1 mo post-operative; BCVA of hand movement was unchanged • one eye, with existing ocular cicatricial pemphigoid and bilateral juxtafoveal telangiectasia, developed macular oedema Post-operative complications in the Phaco only group: None • No cases of hypotony, lens subluxation or dislocation, or requirement of capsular tension ring in either group	 IOP and number of medications were reduced in ECP + Phaco but not reported in Phaco alone VA was unchanged or improved from baseline in most patients The ECP + Phaco group had more complications than those with Phaco alone (no complications) 	"[ECP + Phaco] should be considered as an effective, safe and predictable surgical treatment option for glaucoma patients with co-existing cataract," p. 1311.

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
Perez Bartolome et al. 2017 ⁷³	Clinical effectiveness IOP (mm Hg), mean ± SD, ECP + Phaco and Phaco respectively (<i>P</i> values for comparison with baseline unless otherwise stated): • baseline (as reported in study Table 1): 21.48 ± 5.41; 18.43 ± 3.68; between-group comparison, <i>P</i> = 0.005 • baseline (as reported in study Table 2): 21.45 ± 5.56; 18.43 ± 3.68; between-group comparison, <i>P</i> = NR • 1 d: 17.88 ± 7.18 (<i>P</i> < 0.001); 12.03 ± 2.43 (<i>P</i> < 0.001) • 7 d: 14.42 ± 4.78 (<i>P</i> < 0.001); 11.86 ± 2.58 (<i>P</i> = 0.024) • 1 mo: 14.87 ± 4.4 (<i>P</i> < 0.001); 14.56 ± 1.56 (<i>P</i> < 0.001) • 3 mo: 15.17 ± 3.95 (<i>P</i> < 0.001); 16.5 ± 1.31 (<i>P</i> = 0.024) • 6 mo: 15.73 ± 3.88 (<i>P</i> < 0.001); 16.6 ± 1.63 (<i>P</i> = 0.021) • 12 mo: 16.8 ± 3.81 (<i>P</i> < 0.001); 16.6 ± 1.63 (<i>P</i> = 0.013); <i>P</i> value for between-group comparison, <i>P</i> = 0.721 IOP reduction from baseline at 1 y, mean ± SD, ECP + Phaco and Phaco, respectively (<i>P</i> values for between-group comparisons): • absolute IOP (mm Hg): 4.5 ± 5.13; 1.83 ± 3.61; <i>P</i> = 0.007 • % reduction in IOP: 21.56 ± 10.4; 9.9 ± 7.5; <i>P</i> = 0.003 Medications (number), mean ± SD, ECP + Phaco and Phaco, respectively (<i>P</i> values for comparison with baseline unless otherwise stated): • baseline (as reported in study Table 1): 2.62 ± 0.82; 1.2 ± 0.8; between-group comparison, <i>P</i> < 0.001 • baseline (as reported in study Table 2): 2.61 ± 0.83; 1.2 ± 0.805; between-group comparison, <i>P</i> = NR 1 d: 2.55 ± 0.89 (<i>P</i> = 0.09); 1.13 ± 0.63 (<i>P</i> = 0.563) • 7 d: 2.33 ± 0.85 (<i>P</i> < 0.001); 1± 0.74 (<i>P</i> = 0.083) • 1 mo: 2.4 ± 0.87 (<i>P</i> = 0.005); 0.93 ± 0.78 (<i>P</i> = 0.058) • 3 mo: 2.3 ± 0.87 (<i>P</i> = 0.003); 1.03 ± 0.68 (<i>P</i> = 0.055) • 12 mo: 1.89 ± 0.98 (<i>P</i> < 0.001); 1.06 ± 0.58 (<i>P</i> = 0.255) • 12 mo: 1.89 ± 0.98 (<i>P</i> < 0.001); 0.96 ± 0.61 (<i>P</i> = 0.032)	 Disease severity at baseline was higher in the ECP + Phaco vs. Phaco groups Absolute IOP was significantly reduced from baseline in both groups at 1 d to 12 mo follow-up, but was not different between groups; the mean IOP reduction was significantly greater in the ECP + Phaco group (but IOP was higher at baseline in this group) The number of medications was significantly reduced from baseline in the ECP + Phaco group from 7 d to 12 mo follow-up, and in the Phaco group at 12 mo follow-up only; the reduction in the number of medications used at 12 mo was greater in the ECP + Phaco group (but the number of medications was higher at baseline in this group) VA was significantly reduced from baseline at 1 d follow-up in ECP + Phaco group only, but was significantly increased from baseline in both groups at 1 mo to 	"[ECP + Phaco] is both safe and effective as surgical management for cataract and glaucoma. Compared to phacoemulsification alone, [ECP + Phaco] results in greater IOP reduction and reduced dependence on glaucoma medication in patients with moderate and advanced POAG. Despite [ECP + Phaco] having a higher number of complications, these were easily treated and did not limit the improvement in VA," p. 6.



Medication roduction from baseline at 1 y, mean ± SD, ECP + Phaco and Phaco, respectively (P values for between-group comparison):	Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
• retinal detachment: 1 (1.45%); 0 (0%)		 (<i>P</i> values for between-group comparison): absolute medication (number): 0.73 ± 0.71; 0.23 ± 0.56; <i>P</i> = 0.001 % reduction in number of medications: 26.68 ± 12.2; 21.3 ± 8.1; <i>P</i> = 0.032 VA (logMAR), mean ± SD, ECP + Phaco and Phaco, respectively (<i>P</i> values for comparison with baseline unless otherwise stated): baseline (as reported in study Table 1): 0.33 ± 0.25; 0.44 ± 0.3; between-group comparison, <i>P</i> = 0.079 baseline (as reported in study Table 2): 0.33 ± 0.25; 0.42 ± 0.2; between-group comparison, <i>P</i> = NR 1 d: 0.61 ± 0.29 (<i>P</i> < 0.001); 0.15 ± 0.11 (<i>P</i> < 0.001) 7 d: 0.31 ± 0.19 (<i>P</i> = 0.635); 0.11 ± 0.05 (<i>P</i> < 0.001) 1 mo: 0.12 ± 0.08 (<i>P</i> < 0.001); 0.12 ± 0.04 (<i>P</i> < 0.001) 3 mo: 0.1 ± 0.05 (<i>P</i> < 0.001); 0.12 ± 0.05 (<i>P</i> < 0.001) 6 mo: 0.08 ± 0.07 (<i>P</i> < 0.001); 0.09 ± 0.02 (<i>P</i> < 0.001) 12 mo: 0.07 ± 0.05 (<i>P</i> < 0.001); 0.09 ± 0.02 (<i>P</i> < 0.001) Subgroup Analysis — within ECP + Phaco group, patients without vs. with previous surgeries, respectively: IOP reduction (mm Hg): 5.2 ± 5.3; 4.12 ± 5.21, <i>P</i> = 0.12 % IOP reduction (mm Hg): 5.2 ± 5.3; 4.12 ± 5.21, <i>P</i> = 0.12 % IOP reduction in medications (number): 0.79 ± 0.6; 0.71 ± 0.83, <i>P</i> = 0.11 % reduction in medications (number): 0.79 ± 0.6; 0.71 ± 0.83, <i>P</i> = 0.11 % reduction in medications (for the medications	There were more post- operative complications in the ECP + Phaco vs. the	

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
Sheybani et al. 2015 ⁷⁴	Clinical effectiveness IOP (mm Hg) averaged over 3 visits, mean ± SD, ECP + Phaco and Phaco, respectively (<i>P</i> values for between-group comparisons unless otherwise stated): • baseline: 17.6 ± 9.0; 16.1 ± 4.2, <i>P</i> = 0.083 • at follow-up (range 1 to 43.4 mo): 14.4 ± 3.65 (compared with baseline, <i>P</i> = 0.003); 14.1 ± 3.83 (compared with baseline, <i>P</i> = 0.007), <i>P</i> = 0.378 Medications (number), mean (range), ECP + Phaco and Phaco, respectively: • baseline: 2.0 (0 to 3); 0.4 (0 to 3), <i>P</i> < 0.001 • at follow-up (range 1 to 43.4 mo): 1.51 (0 to 3) (compared with baseline, <i>P</i> < 0.001); 0.38 (0 to 3) (compared with baseline, <i>P</i> = 0.434), <i>P</i> < 0.001 BCVA (logMAR), mean, ECP + Phaco and Phaco, respectively: • baseline: 0.382; 0.358, <i>P</i> = 0.608 • 1 mo: 0.200; 0.144, <i>P</i> = 0.125 Safety None	IOP was reduced from baseline in both groups and was not different between groups at follow-up; however, mean follow-up was longer in the ECP + Phaco vs. Phaco group (7.4 mo vs. 2.1 mo) The number of medications was reduced from baseline at follow-up only in the ECP + Phaco group, but was significantly lower in the Phaco vs. ECP + Phaco group at both time points BCVA was not different between groups at baseline or follow-up	"Only the [ECP + Phaco] group had a statistically significant decrease in the number of ocular hypotensive medication[s] used between preoperative and postoperative visits (p < 0.05). Both groups had a significant decrease in IOP between preoperative and postoperative visits (p < 0.05), with a larger decrease observed in the [ECP + Phaco] group (18.2%) compared with the cataract alone group (12.4%)," p. 199.
Siegel et al. 2015 ⁷⁵	Clinical effectiveness IOP (mm Hg), mean \pm SD, ECP + Phaco and Phaco, respectively (<i>P</i> values for between-group comparisons): • baseline: 17.2 ± 4.8 ; 17.7 ± 4.4 , $P = 0.52$ • 6 mo: 14.7 ± 3.5 ; 16.0 ± 3.3 , $P = 0.06$ • 12 mo: 14.7 ± 3.5 ; 16.2 ± 3.4 , $P = 0.17$ • 18 mo: 14.9 ± 3.1 ; 14.4 ± 3.2 , $P = 0.39$ • 24 mo: 15.0 ± 3.1 ; 14.1 ± 2.9 , $P = 0.08$ • 30 mo: 14.8 ± 3.8 ; 13.5 ± 2.5 , $P = 0.11$ • 36 mo: 14.6 ± 3.1 ; 15.5 ± 3.6 , $P = 0.34$ • In both groups, there was a main effect of time, $P < 0.001$ IOP reduction from baseline (%), mean \pm SD, ECP + Phaco and Phaco, respectively (P values NR): • 1 mo: 4.5 ± 2.2 ; 2.2 ± 4.3 • 6 mo: 11.5 ± 1.8 ; 3.9 ± 4.0	 IOP was reduced from baseline in both groups, but mean IOP was not different between groups at any time point The number of medications was reduced from baseline in both groups, and was significantly lower in the ECP + Phaco vs. Phaco group at baseline (possibly; inconsistent P values reported) and all follow-up time points VA tended to increase from baseline to 36 mo 	"Combined [ECP + Phaco] effectively lowers or maintains intraocular pressure and results in ocular hypertensive medication reduction up to 36 months when compared with Phaco alone. Therefore, [ECP + Phaco] may help to increase medication compliance and reduce glaucoma progression in mild to moderate glaucoma," p. 531-532.



Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 12 mo: 10.9 ± 1.6; 4.4 ± 4.1 18 mo: 9.9 ± 1.6; 15.1 ± 3.3 24 mo: 10.3 ± 1.5; 15.2 ± 4.4 30 mo: 14.8 ± 1.3; 17.2 ± 4.3 36 mo: 12.6 ± 1.4; 7.1 ± 5.9 Medications (number), mean ± SD, ECP + Phaco and Phaco, respectively (<i>P</i> values for between-group comparisons): baseline: 1.3 ± 0.6; 1.5 ± 0.7, reported as <i>P</i> = 0.22 in study Table 1 and <i>P</i> = 0.02 in study Table 2 6 mo: 0.1 ± 0.4; 1.3 ± 0.8, <i>P</i> <0.001 12 mo: 0.2 ± 0.6; 1.4 ± 1.0, <i>P</i> <0.001 18 mo: 0.2 ± 0.5; 1.4 ± 0.9, <i>P</i> <0.001 24 mo: 0.2 ± 0.5; 1.4 ± 0.9, <i>P</i> <0.001 30 mo: 0.2 ± 0.6; 1.3 ± 0.9, <i>P</i> <0.001 36 mo: 0.2 ± 0.59; 1.3 ± 0.9, <i>P</i> <0.001 old phase of the secondary of the seconda	follow-up in both groups, but this was not tested statistically, and VA was not significantly different between groups at either time point • Full and qualified success were both significantly greater in the ECP + Phaco group vs. the Phaco group • There were few complications overall, and there tended to be more complications in the ECP + Phaco vs. Phaco group, but this was not tested statistically	
Francis et al. 2014 ⁸⁴	Clinical effectiveness IOP (mm Hg), mean ± SD, ECP + Phaco and Phaco alone, respectively (<i>P</i> values for between- group comparisons): • Baseline: 18.1 ± 3.0; 18.1 ± 3.0, <i>P</i> = 1.00	 IOP was significantly reduced from baseline in both groups at 36 mo, but IOP was significantly 	"[ECP] added to cataract extraction resulted in greater reduction in IOP and glaucoma medications than cataract

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	• 6 mo: 15.6 ± 2.5; 17.9 ± 3.5, <i>P</i> < 0.001 • 12 mo: 16.0 ± 2.8; 17.5 ± 3.6, <i>P</i> = 0.004 • 24 mo: 16.0 ± 3.3; 17.3 ± 3.2, <i>P</i> = 0.01 • 36 mo: 15.4 ± 2.5; 17.2 ± 3.0, <i>P</i> = 0.003 IOP change from baseline (%), mean ± SD, ECP + Phaco and Phaco alone, respectively (<i>P</i> values for comparison with baseline unless otherwise stated): • 6 mo: 12.4 ± 16.7 (<i>P</i> < 0.001); 0.7 ± 13.1 (<i>P</i> = NS), between-group <i>P</i> < 0.001 • 12 mo: 10.2 ± 17.1 (<i>P</i> < 0.001); 2.7 ± 16.2 (<i>P</i> = NS), between-group <i>P</i> = 0.005 • 24 mo: 10.1 ± 18.7 (<i>P</i> < 0.001); 0.8 ± 12 (<i>P</i> = NS), between-group <i>P</i> = 0.02 • 36 mo: 13.6 ± 15.1 (<i>P</i> < 0.001); 5.1 ± 10.4 (<i>P</i> = 0.01), between-group <i>P</i> = 0.003 Medications (number), mean ± SD, ECP + Phaco and Phaco alone, respectively (<i>P</i> values between-group comparisons): • baseline: 1.5 ± 0.8; 2.4 ± 1.0, <i>P</i> < 0.001 • 6 mo: 0.3 ± 0.7; 1.5 ± 1.2, <i>P</i> < 0.001 • 12 mo: 0.4 ± 0.7; 1.8 ± 1.2, <i>P</i> < 0.001 • 24 mo: 0.4 ± 0.7; 2.0 ± 1.0, <i>P</i> < 0.001 • 36 mo: 0.4 ± 0.7; 2.3 ± 1.0, <i>P</i> < 0.001 • 36 mo: 0.4 ± 0.7; 2.3 ± 1.0, <i>P</i> < 0.001 Reduction in number of medications from baseline (n), mean ± SD, ECP + Phaco and Phaco alone, respectively (<i>P</i> values for comparison with baseline unless otherwise stated): • 6 mo: -1.1 ± 0.8 (<i>P</i> < 0.001); -0.9 ± 1.2 (<i>P</i> < 0.001), between-group <i>P</i> = 0.24 • 12 mo: -1.0 ± 0.9 (<i>P</i> < 0.001); -0.6 ± 0.9 (<i>P</i> < 0.001), between-group <i>P</i> = 0.006 • 24 mo: -1.1 ± 0.9 (<i>P</i> < 0.001); -0.4 ± 0.8 (<i>P</i> < 0.001), between-group <i>P</i> < 0.001 • 36 mo: -1.0 ± 0.9 (<i>P</i> < 0.001); -0.1 ± 0.8 (<i>P</i> = NS), between-group <i>P</i> < 0.001 • 36 mo: -1.0 ± 0.9 (<i>P</i> < 0.001); -0.5 ± 0.9 (<i>P</i> < 0.001), between-group <i>P</i> < 0.001 • 36 mo: -1.0 ± 0.9 (<i>P</i> < 0.001); -0.5 ± 0.9 (<i>P</i> < 0.001), between-group <i>P</i> < 0.001 • 36 mo: -1.0 ± 0.9 (<i>P</i> < 0.001); -0.5 ± 0.9 (<i>P</i> < 0.001), between-group <i>P</i> < 0.001 • 36 mo: -1.0 ± 0.9 (<i>P</i> < 0.001); -0.5 ± 0.9 (<i>P</i> < 0.001), between-group <i>P</i> < 0.001 • 36 mo: -1.0 ± 0.9 (<i>P</i> < 0.001); -0.5 ± 0.9 (<i>P</i> < 0.001), between-group <i>P</i> < 0.001 • 36 mo: -1.0 ± 0.9 (<i>P</i> < 0.001); -0.5 ± 0.9 (<i>P</i>	lower in ECP + Phaco vs. Phaco alone at all follow-up time points The number of medications was significantly reduced from baseline at all follow-up time points in both groups (with the exception of 36 mo in Phaco alone), but was significantly lower in the ECP + Phaco group vs. the Phaco alone group at all time points Adverse events were similar between groups, but this was not tested statistically	extraction alone over a 3-year period," p. 1319. "The data indicate that combining ECP with [Phaco does] not substantially [add] to the risks of [Phaco] alone," p. 1319.

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions			
1x or 2x iSter	1x or 2x iStent + Phaco Vs. Phaco Alone					
El Wardani et al. 2015 ⁷⁶	Clinical effectiveness Note: In this study, different numerical values were reported in the abstract, text, and tables; all distinct values are presented here (e.g., value 1 or value 2). IOP (mm Hg), mean, iStent + Phaco, 2x iStent + Phaco, and Phaco alone, respectively (P values for comparison with baseline where available): • baseline: 16.7 or 17.5; 17.0; 16.3 • 1 d: 18.2; 16.1; 17.0 • 1 wk: 16.7; 16.4; 16.4 • 1 mo: 13.9; 15.5; 14.5 • 3 mo: 15.0; 13.8; 14.0 • 6 mo: 15.1 or 14.7 (P < 0.16 or P = 0.01); 13.8 or 14.4 (P = 0.05 or P = 0.07); 13.9 or 14.2 (P < 0.01) • "There was no significant change between groups at any time point" p. 444 (P values NR) Medications (number), mean, iStent + Phaco, 2x iStent + Phaco, and Phaco alone, respectively (P values for comparison with baseline where available): • baseline: 1.8 or 2.5; 2.1; 1.9 • 1 d: 0.6; 0.3; 1.9 • 1 wk: 1.0; 1.3; 1.6 • 1 mo: 1.0; 1.7; 1.5 • 3 mo: 0.8; 1.0; 1.7 • 6 mo: 1.0 or 0.8 (P = NR or P = 0.04); 1.0 or 1.2 (P < 0.01 or P = NR); 1.6 or 1.8 (P = 0.12 or P = NR) • "There was a significant decrease in medications in both iStent groups compared with phacoemulsification alone" p. 445 (P values NR) VA (units not specified), median, iStent + Phaco, 2x iStent + Phaco, and Phaco alone respectively: • baseline: 0.4; 0.5; 0.3 • other time points: NR "There was a significant improvement of visual acuity in all groups." (P = NR) Safety None	 Because of inconsistency in reporting, interpretation of findings is unclear IOP may have been unchanged or significantly reduced from baseline at 6 mo in the iStent + Phaco and 2x iStent + Phaco groups, and appeared to have been significantly reduced from baseline at 6 mo in the Phaco alone group, with no significant between-group difference in IOP at any time point The number of medications may have been reduced from baseline in the iStent + Phaco and 2x iStent + Phaco, but not Phaco alone, groups 	"iStent implantation resulted in similar IOP reduction to phacoemulsification alone but achieved a significantly greater reduction in glaucoma medications. This may improve compliance and quality of life, and reduce health care costs in patients with early to moderate glaucoma," p. 442.			

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
Fea et al. 2015 ⁶⁶ and Fea 2010 ⁶⁷	Clinical effectiveness IOP (medicated unless otherwise stated; mm Hg), mean ± SD, iStent + Phaco and Phaco, respectively (<i>P</i> values for between-group comparisons unless otherwise stated): • baseline: 17.9 ± 2.6; 17.3 ± 3.0, <i>P</i> = 0.512 • 12 mo: 14.7 ± 1.3; 15.6 ± 1.1, <i>P</i> = NR • 12 mo (after medication washout): 16.1 ± 2; 18.4 ± 3.1, <i>P</i> = 0.05 • 15 mo: 14.8 ± 1.2; 15.7 ± 1.1, <i>P</i> = 0.031 • 16 mo (after 1 mo medication washout): 16.6 ± 3.1; 19.2 ± 3.5, <i>P</i> = 0.042 • 48 mo: 15.9 ± 2.3; 17 ± 2.5, <i>P</i> = NS • 48 mo (after medication washout): 17.5 ± 2.3 (compared with before washout <i>P</i> = 0.14); 20.4 ± 3.2 (compared with before washout <i>P</i> = 0.04) Reduction in IOP from baseline (mm Hg), mean ± SD where reported, iStent + Phaco and Phaco, respectively: • 15 mo: 3.2 ± 3.0; 1.6 ± 3.2, <i>P</i> = 0.177 • 48 mo (after medication washout): 0.3; 3.7; between-group difference 14.2% (<i>P</i> = 0.02) Medications (number), mean ± SD, iStent + Phaco and Phaco, respectively (<i>P</i> values for between-group comparisons unless otherwise stated): • baseline: 2.0 ± 0.9; 1.9 ± 0.7, <i>P</i> = NR • 12 mo: 0.4 ± 0.7 (compared with baseline <i>P</i> = 0.003); 1 ± 1 (compared with baseline <i>P</i> = 0.01), <i>P</i> = NR • 15 mo: 0.4 ± 0.7; 1.3 ± 1.0, <i>P</i> = 0.007 • 48 mo: 0.5 ± 0.8 (compared with baseline <i>P</i> = 0.005); 0.9 ± 1 (compared with baseline <i>P</i> = 0.01); <i>P</i> = NS Number of patients requiring no medication at 15 mo, n (%), iStent + Phaco and Phaco, respectively: • 8 (67%); 5 (24%), <i>P</i> = 0.027 Safety Adverse events, n: • iStent + Phaco: Stent malposition, 2 • Phaco: Ruptured capsule, 1	Absolute IOP was significantly lower at both medicated (15 mo) and unmedicated (16 mo) follow-up in the iStent + Phaco vs. Phaco groups, but was not different between groups at 48 mo follow-up Medication use was significantly lower in the iStent + Phaco vs. Phaco groups at 15 mo but not 48 mo follow-up	"Phacoemulsification with stent implantation was more effective in controlling IOP than phacoemulsification alone; the safety profiles were similar," p. 407.67 "In conclusion, most patients having a combined [iStent + Phaco] maintained IOP target levels without medication through 15 months postoperatively. Conversely, the majority of patients having only [Phaco] reached the target IOP only with the addition of medications. Therefore, the stent reduced the need for medications postoperatively" p. 411.67 "[P]atients having [iStent + Phaco] maintained low IOP levels after 48 months of follow-up. [Phaco] alone showed a loss of efficacy in controlling IOP over time. Both treatments reduced the number of ocular hypotensive medications prescribed," p. 4.66

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
Craven et al. 2012 ⁶⁸ and Samuelson et al. 2011 ³⁴	Clinical effectiveness IOP (mm Hg), mean ± SD, iStent + Phaco and Phaco alone, respectively, <i>P</i> values for between-group comparisons where available: • screening (medicated): 18.7 ± 3.3; 18.0 ± 3.0 • baseline (unmedicated): 25.2 ± 3.5; 25.5 ± 3.7, <i>P</i> = 0.517 • 12 mo (consistent cohort): 17.0 ± 2.8; 17.0 ± 3.1, <i>P</i> = NR • 24 mo (consistent cohort): 17.1 ± 2.9; 17.8 ± 3.3, <i>P</i> = NR Reduction in IOP from unmedicated screening (mm Hg), iStent + Phaco and Phaco alone, respectively, <i>P</i> values NR: • 12 mo: 8.4 ± 3.6; 8.5 ± 4.3 • 24 mo: 8.4 ± NR; 7.5 ± NR Reduction in IOP from medicated baseline (mm Hg), iStent + Phaco and Phaco alone, respectively, <i>P</i> value NR: • 12 mo: 1.5 ± 3.0; 1.0 ± 3.3 Medications (number), mean ± SD, iStent + Phaco and Phaco alone, respectively (<i>P</i> values for between-group comparisons): • screening: 1.5 ± 0.7; 1.5 ± 0.6, <i>P</i> = 0.451 • 12 mo (consistent cohort): 0.2 ± 0.6; 0.4 ± 0.7, <i>P</i> = 0.016 • 24 mo (consistent cohort): 0.3 ± 0.6; 0.5 ± 0.7, <i>P</i> = NS Reduction in medications from screening (number), iStent + Phaco and Phaco alone, respectively, <i>P</i> value for between-group comparison: • 12 mo: 1.4 ± 0.8; 1.0 ± 0.8, <i>P</i> = 0.005 CDVA, n (%), iStent + Phaco and Phaco alone, respectively, <i>P</i> values NR: Baseline: • 20/40 or better: 49 (45%); 53 (44%) 12 mo: • 99 (94%); 101 (90%) 24 mo: • 20/32 or better: NR (83%); NR (91%) • 20/32 or better: NR (63%); NR (67%)	 At 12 and 24 mo follow-up, absolute mean IOP tended to be similar between groups (statistical comparison not reported) The number of medications was significantly lower in the iStent + Phaco vs. the Phaco alone group at 12 months, but was not different between groups at 24 months CDVA was similar between groups, but this was not tested statistically The VF was similar between groups at baseline and 24 mo follow-up Complications were similar between groups, but this was not tested statistically 	"A significantly higher proportion of patients [with iStent + Phaco] had IOP control on no medication through 2 years postoperatively compared with patients having [Phaco] alone. Both groups had a similar favorable longterm safety profile," p. 1345. "In conclusion, the implantation of the stent in patients undergoing cataract surgery provided clinically and statistically significant improvements in the management of elevated IOP compared with [Phaco] alone, with a favorable safety profile and clinically significant reductions in IOP and medication," p. 466. "Although mean reduction in IOP appeared similar in both groups, a substantially higher level of medication was used in the [Phaco alone] group to maintain this similar IOP level," p. 463. "48."



Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	• 20/20 or better: NR (34%); NR (32%)		
	 VF mean deviation (dB), mean ± SD, iStent + Phaco and Phaco alone, respectively, P values for between-group comparisons: baseline: -3.75 ± 3.03; -3.74 ± 3.86, P = 0.983 24 mo: -3.22 ± 3.01; -3.16 ± 3.66, P = NS 		
	 VF PSD (dB), mean ± SD, iStent + Phaco and Phaco alone, respectively, P values for between-group comparisons: baseline: 2.89 ± 1.79; 2.79 ± 1.90, P = NR 24 mo: 3.39 ± 2.29; 3.17 ± 2.51, P = NS 		
	Safety Intraoperative complications, n (%), iStent + Phaco and Phaco alone, respectively, P values NR: Cataract surgery complications: • vitreous removal/vitrectomy: 5 (4.3%); 3 (2.6%) • IOP removal and replacement (torn IOL haptic): 0 (0%); 1 (0.9%) Stent implantation complications: • unsuccessful stent implantation: 1 (0.9%); NA • intraoperative stent removal and replacement: 1 (0.9%); NA • stent malposition: 1 (0.9%); NA • iris touch: 8 (7.0%); NA • endothelial touch: 1 (0.9%); NA		
	Post-operative complications ≥ 2% at 12 mo, n (%), iStent + Phaco and Phaco alone, respectively, <i>P</i> values NR: • anticipated early post-operative event¹: 14 (13%); 15 (12%) • stent obstruction by iris, vitreous, fibrous overgrowth, fibrin, blood, and so forth: 4 (4%); 0 (0%) • posterior capsular opacification: 3 (3%); 8 (7%) • stent malposition: 3 (3%); 0 (0%) • subconjunctival hemorrhage: 2 (2%); 2 (2%) • elevated IOP, other: 2 (2%); 1 (1%) • epiretinal membrane: 2 (2%); 1 (1%) • iris atrophy: 2 (2%); 0 (0%)		



Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 blurry vision or visual disturbance: 1 (1%); 6 (5%) iritis: 1 (1%); 6 (5%) dry eye: 1 (1%); 2 (2%) elevated IOP requiring treatment with oral or intravenous medications or surgical interventions: 1 (1%); 2 (2%) macular edema: 1 (1%); 2 (2%) foreign body sensation: 0 (0%); 3 (2%) allergic conjunctivitis: 0 (0%); 2 (2%) mild pain: 0 (0%); 2 (2%) rebound inflammation from tapering steroids: 0 (0%); 2 (2%) Post-operative complications ≥ 3% at 24 mo, n (%), iStent + Phaco and Phaco alone, respectively, P values NR: anticipated early post-operative event: 20 (17.2%); 22 (18.8%) posterior capsule opacification: 7 (6.0%); 12 (10.3%) elevated IOP: 5 (4.3%); 8 (6.8%) elevated IOP — other: 4 (3.4%); 5 (4.3%) elevated IOP requiring treatment with oral or intravenous medications or with surgical intervention: 1 (0.9%); 3 (2.6%) stent obstruction: 5 (4.3%); NA blurry vision or visual disturbance: 4 (3.4%); 8 (6.8%) stent malposition: 3 (2.6%); NA iritis: 1 (0.9%); 6 (5.1%) conjunctival irritation due to hypotensive medication: 1 (0.9%); 3 (2.6) disc hemorrhage: 1 (0.9%); 3 (2.6%) 		
	Secondary surgical interventions at 12 mo, n (%), iStent + Phaco and Phaco alone, respectively, <i>P</i> values NR: • paracentesis: 31 (28%); 33 (27%) • Nd:YAG laser capsulotomy: 4 (4%); 7 (6%) • stent repositioning: 3 (3%); NA • punctal cautery/punctual plugs: 1 (1%); 2 (2%) • focal argon laser photocoagulation: 1 (1%); 0 (0%) • Nd:YAG laser for stent obstruction: 1 (1%); NA • stent removal and replacement: 1 (1%); NA • trabeculoplasty: 0 (0%); 2 (2%)		

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 deep sclerectomy/sclerostomy: 0 (0%); 1 (1%) IOL removal and replacement: 0 (0%); 1 (1%) LASIK: 0 (0%); 1 (1%) pupilloplasty: 0 (0%); 1 (1%) vitrectomy: 0 (0%); 1 (1%) wound resuture due to wound leak: 0 (0%); 1 (1%) 		
	Secondary surgical interventions at 24 mo, n (%), iStent + Phaco and Phaco alone, respectively, <i>P</i> values NR: • stent repositioning: 3 (2.6%); NA • stent removal and replacement: 1 (0.9%); NA • Nd:YAG laser for stent obstruction: 1 (0.9%); NA • trabeculoplasty: 1 (0.9%); 2 (1.7%) • focal argon laser photocoagulation: 1 (0.9%); 0 (0%) • deep sclerectomy/sclerostomy: 0 (0%); 1 (0.9%) • IOL removal and replacement: 0 (0%); 1 (0.9%) • LASIK: 0 (0%); 1 (0.9%) • pupilloplasty: 0 (0%); 1 (0.9%) • vitrectomy: 0 (0%); 1 (0.9%) • wound resuture due to wound leak: 0 (0%); 1 (0.9%) • Total patients (some had > 1 intervention): 5 (4.3%); 6 (5.1%) a "Anticipated early post-operative events" included early post-operative corneal edema, anterior-chamber cells, corneal abrasion, discomfort, subconjunctival hemorrhage, blurry vision,		
Fernandez- Barrientos et al. 2010 ⁶⁹	and floaters as anticipated in the early period after cataract surgery. Clinical effectiveness IOP (mm Hg), mean \pm SD, 2x iStent + Phaco and Phaco alone, respectively (P values for between-group comparisons): • baseline: 24.2 ± 1.8 ; 23.6 ± 1.5 , $P = 0.18$ • 1 d : 21.9 ± 10.1 ; 26.4 ± 8.1 , $P = 0.08$ • $1 - 2 \text{ wk}$: 16.5 ± 4.4 ; 18.2 ± 4.2 , $P = 0.28$ • 1 mo : 16.7 ± 3.1 ; 18.9 ± 1.4 , $P = 0.01$ • 3 mo : 15.2 ± 2.5 ; 18.6 ± 3.4 , $P = 0.009$ • 6 mo : 15.6 ± 3.3 ; 19.6 ± 4 , $P = 0.02$ • 12 mo : 17.6 ± 2.8 ; 19.8 ± 2.3 , $P = 0.04$	IOP was significantly lower in the 2x iStent + Phaco group vs. the Phaco alone group at every follow-up time point (except 1 d and 1-2 wk); no within-group statistical comparisons with baseline were conducted The mean number of medications was not	"With respect to efficacy, [2x iStent + Phaco] provided significant IOP reductions as well as a significant reduction in the need for concomitant medical treatment," p. 3331.

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 Medications (number), mean ± SD (range), 2x iStent + Phaco and Phaco alone, respectively (P values for between-group comparisons): baseline: 1.1 ± 0.5 (0-1); 1.2 ± 0.7 (0-2), P = 0.66 1 d: NR 1-2 wk: NR 1 mo: 0.1 ± 0.2 (0 to 1); 0.1 ± 0.3 (0 to 1), P = 0.51 3 mo: 0.1 ± 0.2 (0 to 1); 0.3 ± 0.5 (0 to 1), P = 0.06 6 mo: 0.1 ± 0.5 (0 to 2); 0.5 ± 0.7 (0 to 2), P = 0.03 12 mo: 0.00 (0); 0.7 ± 1.0 (0 to 3), P = 0.007 Safety Intraoperative complications, n (%), 2x iStent + Phaco and Phaco alone, respectively: malpositioned stent: 6 (18% of the total number of stents implanted; number of eyes affected NR); NA 	significantly different between groups at 1 d, 1- 2 wk, 1 mo, or 3 mo follow-up, but was significantly lower in the 2x iStent + Phaco group vs. the Phaco alone group at 6 and 12 mo follow-up; no statistical comparisons with baseline were conducted • iStent malposition was present in 18% of the 2x iStent + Phaco group; no other intraoperative complications were reported	
Hydrus Micro	stent + Phaco Vs. Phaco Alone		
Samuelson et al. 2018 ⁸⁸	Clinical effectiveness Washed-out modified DIOP (mm Hg), mean ± SD, Hydrus + Phaco and Phaco alone, respectively (<i>P</i> values for between-group comparisons): • baseline: 25.5 ± 3.0; 25.4 ± 2.9, <i>P</i> = NS • 24 mo: 17.4 ± 3.7; 19.2 ± 3.8, <i>P</i> = NR Medicated IOP (mm Hg), mean ± SD, Hydrus + Phaco and Phaco alone, respectively (<i>P</i> values for between-group comparisons): • baseline: 17.9 ± 3.1; 18.1 ± 3.1, <i>P</i> = NS • 24 mo: 16.8 ± 3.2; 17.4 ± 3.0, <i>P</i> = NR Reduction in modified DIOP from baseline (mm Hg), mean ± SD, Hydrus + Phaco and Phaco alone, respectively (<i>P</i> values for between-group comparisons): • 12 mo: -8.5; -6.3, between-group difference -2.2, <i>P</i> < 0.001 • 24 mo: -7.6 ± 4.1; -5.3 ± 4.2; between-group difference -2.3, 95% CI, -3.0 to -1.6 <i>P</i> < 0.001	The reduction in washed-out modified DIOP from baseline was significantly greater in the Hydrus Microstent + Phaco group vs. the Phaco alone group at 12 and 24 mo follow-up A significantly greater proportion of eyes in the Hydrus Microstent + Phaco group vs. the Phaco alone group had ≥ 20%, 30%, or 40% reductions in washed-	"This 24-month multicenter randomized controlled trial demonstrated superior reduction in [modified DIOP] and medication use among subjects with mild-to-moderate POAG who received a [Hydrus Microstent] combined with phacoemulsification compared with phacoemulsification alone," p. 1. The reduction in unmedicated modified DIOP in Hydrus Microstent + Phaco vs. Phaco alone was "stastistically and"
	Proportion of eyes with washed-out modified DIOP reduction ≥ 20%, %, Hydrus + Phaco and Phaco alone, respectively (<i>P</i> values for between-group comparisons): • 12 mo: 85.9%; 70.0%; between-group difference 15.9%, 95% CI, 11.2% to 27.8% <i>P</i> < 0.001	out modified DIOP at 24 mo The reduction in	clinically significant," p. 6. "There were no serious ocular

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 • 24 mo: 77.3%; 57.8%; between-group difference 19.5%, P < 0.001 Proportion of eyes with washed-out modified DIOP reduction ≥ 30%, %, Hydrus + Phaco and Phaco alone, respectively (P value for between-group comparison): • 24 mo: 53.4%; 32.1%, P < 0.0001 Proportion of eyes with washed-out modified DIOP reduction ≥ 40%, %, Hydrus + Phaco and Phaco alone, respectively (P value for between-group comparison): • 24 mo: 24.7%; 8.0%, P < 0.0001 Medications (number), mean ± SD, Hydrus + Phaco and Phaco alone, respectively (P values for between-group comparisons): • baseline: 1.7 ± 0.9; 1.7 ± 0.9, P = NS • 24 mo: 0.3 ± 0.8; 0.7 ± 0.9, P = NR Reduction in medications from baseline (number), mean (%), Hydrus + Phaco and Phaco alone, respectively (P values for between-group comparisons): • 24 mo: 1.4 (82.4%); 1.0 (58.8%), between-group difference –0.4 medications, P < 0.001 Safety Intraoperative adverse events, n (%), Hydrus + Phaco and Phaco alone, respectively: • device malposition, 6 (1.6%); NA • device malposition within the iris root, 1 (0.3%); NA • hyphema obscuring the surgeon's view (resolved in < 1 wk), 4 (1.1%), 0.0% Post-operative events, n (%), Hydrus + Phaco and Phaco alone, respectively: • surgical re-intervention in study eye, 2.4%, 4.8% • uveitis/iritis requiring steroids, 5.6%, 3.7% • conjunctivitis, 5.7%, 7.0% • layered hyphema, > 2 mm after 1 day, 0.5%, 0.5% • BCVA loss ≥ 2 lines ≥ 3 mo, 1.4%, 1.6% • corneal edema, 1.4%, 0% • elevated IOP ≥ 10 mm Hg over baseline, 0.5%, 2.7% • device obstruction/focal PAS, nonobstructive, 14.9%, 2.1% • device obstruction/focal PAS, obstructive, 3.8%, NA 	number of medications from baseline to 24 mo follow-up was significantly greater in the Hydrus Microstent + Phaco group vs. the Phaco alone group There were relatively few intraoperative adverse events in the Hydrus Microstent + Phaco group (up to 1.6%) and none in the Phaco alone group (however those with complicated Phaco were excluded) Adverse events, and requirement for secondary surgery, were similar between groups up to 24 mo follow-up, but this was not tested statistically	adverse events related to the [Hydrus] microstent, and no significant differences in safety parameters between the 2 groups," p. 1.

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 cystoid macular edema, 2.2%, 2.1% epiretinal membrane, 1.6%, 1.6% subconjunctival hemorrhage, 2.4%, 0% worsening of VF mean deviation by 2.5 dB, 4.3%, 5.3% development of neovascular glaucoma and secondary angle closure, 0%, 0.5% Secondary IOP-lowering surgical interventions, %, Hydrus + Phaco and Phaco alone, respectively: tube shunts/Trabeculectomy, 0%, 2.1% paracentesis, 0.3%, 1.0% laser membranectomy/synechialysis, 0.8%, 0% SLT/trabeculoplasty, 0%, 0.5% Total: 1.1%, 2.7% 		
Pfeiffer et al. 2015 ⁷¹	Clinical effectiveness Proportion of patients with ≥ 20% reduction in washed-out DIOP compared with baseline, n (%) (P values for between-group comparisons): • 12 mo: Hydrus + Phaco, NR (88%); Phaco, NR (74%); 95% CI, 16.3 to 51.7%; P = 0.1247 • 24 mo: Hydrus + Phaco, 40 (80%); Phaco, 23 (46%); 95% CI, 16.3 to 51.7%; P = 0.0008 Washed-out DIOP, mean ± SD, Hydrus + Phaco and Phaco, respectively (P values for between-group comparisons): • baseline: 26.3 ± 4.4; 26.6 ± 4.2, P = 0.7147 • 12 mo: 16.6 ± 2.8; 17.4 ± 3.7 • 24 mo: 16.9 ± 3.3; 19.2 ± 4.7, P = 0.0093 • washed-out DIOP was "significantly lower than baseline" (p. 1286) in both groups at both 12 and 24 months (P values NR) Medications (number), mean ± SD, Hydrus + Phaco and Phaco, respectively (P values for between-group comparisons): • baseline: 2.0 ± 1.0; 2.0 ± 1.1, P = 0.7619 • 24 mo: 0.5 ± 1.0; 1.0 ± 1.0, P = 0.0189 Note: Other values were reported only in figures (i.e., no data to report). Safety Adverse events in year 1, n (%),Hydrus + Phaco and Phaco, respectively: • retinal detachment: 0 (0.0%); 1 (2.0%), P = 1.0000	DIOP was reduced from baseline in both groups, but was significantly lower in the Hydrus + Phaco group vs. the Phaco alone group at 24 mo follow-up The number of medications was significantly lower in the Hydrus + Phaco group vs. the Phaco alone group at 24 mo follow-up The proportion of patients with ≥ 20% reduction in washed-out DIOP compared with baseline was significantly greater in the Hydrus + Phaco group vs. the Phaco alone group at 24 mo follow-up Adverse events were	"Intraocular pressure was clinically and statistically significantly lower at 2 years in the [Hydrus + Phaco] group compared with the [Phaco] alone group, with no differences in safety," p. 1283.

CADTH

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 post-operative wound dehiscence: 0 (0.0%); 1 (2.0%), <i>P</i> = 1.000 anterior ischemic optic neuropathy: 0 (0.0%); 1 (2.0%), <i>P</i> = 1.000 BCVA loss > 2 lines: 0 (0.0%); 3 (6.0%), <i>P</i> = 0.2424 IOP spike (> 10 mm Hg more than baseline): 2 (4.0%); 2 (4.0%), <i>P</i> = 1.0000 macular edema: 1 (2.0%); 2 (4.0%), <i>P</i> = 1.0000 retinal detachment: 0 (0.0%); 1 (2.0%), <i>P</i> = 1.0000 vitreal macular traction: 0 (0.0%); 1 (2.0%), <i>P</i> = 1.0000 epiretinal membrane: 0 (0.0%); 2 (4.0%), <i>P</i> = 0.4949 focal peripheral anterior synechiae: 6 (12.0%); 1 (2.0%), <i>P</i> = 0.1117 optic disc hemorrhage: 1 (2.0%); 0 (0.0%), <i>P</i> = 1.000 secondary glaucoma surgery: 0 (0.0%); 0 (0.0%), <i>P</i> = NA Adverse events in year 2, n (%), Hydrus + Phaco and Phaco, respectively: retinal detachment: 0 (0.0%); 0 (0.0%), <i>P</i> = NA Adverse events in year 2, n (%), Hydrus + Phaco and Phaco, respectively: retinal detachment: 0 (0.0%); 0 (0.0%), <i>P</i> = NA anterior ischemic optic neuropathy: 0 (0.0%); 0 (0.0%), <i>P</i> = NA BCVA loss > 2 lines: 0 (0.0%); 1 (2.0%), <i>P</i> = 1.000 IOP spike (> 10 mm Hg more than baseline): 0 (0.0%); 0 (0.0%), <i>P</i> = NA macular edema: 0 (0.0%); 0 (0.0%), <i>P</i> = NA vitreal macular traction: 1 (2.1%); 0 (0.0%), <i>P</i> = NA vitreal membrane: 0 (0.0%); 1 (2.0%), <i>P</i> = 1.0000 focal peripheral anterior synechiae: 9 (18.8%); 1 (2.0%), <i>P</i> = 0.0077 optic disc hemorrhage: 0 (0.0%); 0 (0.0%), <i>P</i> = NA secondary glaucoma surgery: 1 (2.1%); 2 (4.1%), <i>P</i> = 1.0000	similar between groups at 1 y and 2 y follow-up, except for focal peripheral anterior synechiae, which was significantly more prevalent in the Hydrus + Phaco group at 2 y	
	arisons (From Single Studies)		
Vold et al. 2016 ⁷⁰	Clinical effectiveness Unmedicated IOP (mm Hg), mean ± SD, CyPass Micro-Stent + Phaco and Phaco alone, respectively (<i>P</i> values for between-group comparisons): • baseline: 24.4 ± 2.8; 24.5 ± 3.0, <i>P</i> > 0.05 • 24 mo: 17.0 ± 3.4; 19.3 ± 3.3, <i>P</i> = NR Unmedicated IOP reduction from baseline (mm Hg, %), mean ± SD, CyPass Micro-Stent + Phaco and Phaco alone, respectively (<i>P</i> values for comparisons between groups and within groups from baseline all <i>P</i> < 0.001): • 12 mo: -7.9 ± 4.1 (32%); -6.2 ± 3.8 (26%)	 The reduction in IOP and number of medications from baseline was greater in the CyPass Micro-Stent + Phaco vs. Phaco alone group at 12 and 24 mo follow-up There were significantly fewer medications required in the CyPass 	"The [CyPass Micro-Stent] showed sustained 24-month efficacy benefit over phacoemulsification across several outcomes, including reducing both IOP and glaucoma medication use," p. 2108. "Supraciliary implantation of

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 • 24 mo: -7.4 ± 4.4 (30%); -5.4 ± 3.9 (21%) Between-group difference in IOP (mm Hg), mean (favouring CyPass Micro-Stent + Phaco): • 12 mo, PP: 1.7, 95% CI, 0.9 to 2.5, P < 0.001 • 24 mo, PP: 2.0, 95% CI, 1.1 to 2.8, P < 0.001 • 24 mo, ITT: 1.8, 95% CI, 1.0 to 2.6, P < 0.001 IOP reduction ≥ 20% from baseline (proportion of eyes), CyPass Micro-Stent + Phaco and Phaco alone, respectively (P values for between-group comparisons; variability presented in a figure, therefore no values to report): • 12 mo: 82%; 66%, P < 0.0001 • 24 mo, PP: 77%; 60%, P = 0.001 • 24 mo, ITT: 73%; 58%, P = 0.002 Medications (number), mean ± SD, CyPass Micro-Stent + Phaco and Phaco alone, respectively (P values for comparison with baseline unless otherwise stated): 	Micro-Stent + Phaco vs. Phaco alone group at 12 and 24 mo follow-up • Adverse events were not different between groups	the CyPass Micro-Stent during routine cataract surgery safely and sustainedly reduces IOP and glaucoma medication use in subjects with mild-to-moderate POAG and comorbid cataracts," p. 2110.
	 baseline, ITT: 1.4 ± 0.9; 1.3 ± 1.0 (between group P > 0.05) 12 mo, ITT: 0.2 ± 0.6 (P < 0.001); 0.7 ± 0.9 (P < 0.001) 24 mo, ITT: "maintained" (values NR); 0.6 ± 0.8 (P < 0.001; between-group comparison, P < 0.001) Proportion of patients requiring no medications at 24 mo: CyPass Micro-Stent + Phaco, 84.8%; Phaco alone, 59.1%, P < 0.001 mean medication use at 24 mo was 67% lower in the CyPass Micro-Stent + Phaco group 		
	Safety Adverse events at any point intraoperatively or through 24 mo follow-up unless otherwise stated, n (%), CyPass Micro-Stent + Phaco; Phaco alone: • BCVA loss \geq 10 letters (\geq 2 lines) of \leq 30-day duration: 33 (8.8%); 20 (15.3%), P = 0.0466 • BCVA loss \geq 10 letters (\geq 2 lines) unresolved at 24 mo: 1.1%; 0.0%, P = NR • corneal abrasion: 7 (1.9%); 2 (1.5%), P = 0.999 • corneal edema: 13 (3.5%); 2 (1.5%), P = 0.3741 • conjunctivitis: 4 (1.0%); 3 (2.3%), P = 0.3828 • cyclodialysis cleft \geq 2-mm circumference: 7 (1.9%); 0 (0.0%), P = 0.1985 • hyphema, transient intraoperative: 10 (2.7%); 0 (0.0%), P = 0.0706 • iritis: 32 (8.6%); 5 (3.8%), P = 0.0809		



Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 hypotony (IOP < 6 mm Hg): 11 (2.9%); 0 (0%), P = 0.0744 IOP ≥ 10 mm Hg over baseline: 16 (4.3%); 3 (2.3%), P = 0.4263 maculopathy, cystoid edema: 6 (1.3%); 1 (0.8%), P = 0.6829 tent obstruction: 8 (2.1%); NA, P = NA subconjunctival hemorrhage: 6 (1.6%); 1 (0.8%), P = 0.6829 secondary ocular surgical intervention: 20 (5.5%); 7 (5.3%), P = 0.9999 visual field loss progression, confirmed: 25 (6.7%); 13 (9.9%), P = 0.2488 Total: CyPass Micro-Stent + Phaco, 39%; Phaco alone, 36% Note: The CyPass Micro-Stent was voluntarily withdrawn from the global market by the manufacturer in August 2018 due to five-year data from this study that showed greater endothelial cell loss in the CyPass Micro-Stent group; 37,38 however, at the time of report publication, this device was still active in the MDALL and is therefore included in this report. 		
MIGS + Catar	act Surgery Vs. A Different MIGS + Cataract Surgery		
Goniotomy W	lith Kahook Dual Blade + Phaco Vs. iStent + Phaco		
Dorairaj et al. 2018 ⁸⁶	Clinical effectiveness IOP (mm Hg), mean ± SD, KDB + Phaco and iStent + Phaco, respectively, <i>P</i> values for comparisons between groups or with baseline NR: • baseline: 17.9 ± 4.4; 16.7 ± 4.4 • 1 d: 15.4 ± 5.6; 16.0 ± 5.6 • 1 wk: 15.6 ± 5.5; 16.5 ± 5.5 • 1 mo: 14.0 ± 3.6; 14.9 ± 3.5 • 3 mo: 13.6 ± 2.7; 14.2 ± 2.6 • 6 mo: 13.6 ± 2.7; 13.9 ± 2.7 IOP reduction from baseline (mm Hg), mean (%), KDB + Phaco and iStent + Phaco, respectively (<i>P</i> values for comparison with baseline; all between-group comparisons <i>P</i> < 0.001): • 1 d: -2.5 (-13.9%), <i>P</i> < 0.001; -0.7 (-4.3%), <i>P</i> = 0.495 • 1 wk: -2.3 (-12.7%), <i>P</i> < 0.001; -0.2 (-0.9%), <i>P</i> = 0.999 • 1 mo: -3.8 (-21.3%), <i>P</i> < 0.001; -1.8 (-10.6%), <i>P</i> < 0.001 • 3 mo: -4.3 (-24.0%), <i>P</i> < 0.001; -2.5 (-15.0%), <i>P</i> < 0.001 • 6 mo: -4.2 (-23.7%), <i>P</i> < 0.001; -2.7 (-16.4%), <i>P</i> < 0.001 Proportion of eyes with IOP reduction ≥ 20% (%),KDB + Phaco and iStent + Phaco, respectively (<i>P</i> values for between-group comparisons): • 1 d: 40.9; 32.8, <i>P</i> = NS	IOP was significantly reduced from baseline at 1, 3, and 6 mo in both groups; the reduction in IOP was significantly greater in the KDB + Phaco group vs. the iStent + Phaco group from 1 d through 6 mo follow-up A significantly greater proportion of eyes achieved an IOP reduction of ≥ 20% in the KDB + Phaco group vs. the iStent + Phaco group at 1 wk through 6 mo follow-up The number of medications was significantly lower, and	"Goniotomy with the KDB combined with cataract surgery significantly lowers both IOP and the need for IOP-lowering medications compared to cataract extraction with iStent implantation in glaucomatous eyes through 6 months of postoperative follow-up," p. 791. "Adverse events were generally mild to moderate in intensity and resolved spontaneously," p. 794.

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 1 wk: 44.3; 24.2, P ≤ 0.011 1 mo: 53.6; 28.3, P ≤ 0.011 3 mo: 53.2; 26.8, P ≤ 0.011 6 mo: 56.1; 43.9, P ≤ 0.011 Medications (number), mean ± SD, KDB + Phaco and iStent + Phaco, respectively, P values for between-group differences: baseline: 1.7 ± 0.9; 1.9 ± 0.9, P > 0.05 1 d: 0.9 ± 1.0; 0.9 ± 1.0, P > 0.05 1 mo: 0.6 ± 1.0; 1.0 ± 1.0, P > 0.05 1 mo: 0.6 ± 1.0; 1.0 ± 1.0, P < 0.05 3 mo: 0.6 ± 0.9; 1.0 ± 0.8, P < 0.05 6 mo: 0.6 ± 1.0; 1.0 ± 1.0, P < 0.05 6 mo: 0.6 ± 1.0; 1.0 ± 1.0, P < 0.05 1 d: -0.8 (-47.1%), P < 0.001; -0.9 (-50.6%), P < 0.001; between-group comparison, P = 0.294 1 wk: -0.6 (-36.0%), P < 0.001; -0.9 (-47.0%), P < 0.001; between-group comparison, P = 0.078 1 mo: -1.1 (-64.6%), P < 0.001; -0.8 (-44.6%), P < 0.001; between-group comparison, P < 0.001 3 mo: -1.1 (-63.7%), P < 0.001; -0.9 (-48.8%), P < 0.001; between-group comparison, P = 0.001 6 mo: -1.1 (-62.9%), P < 0.001; -0.9 (-46.1%), P < 0.001; between-group comparison, P = 0.001 6 mo: -1.1 (-62.9%), P < 0.001; -0.9 (-46.1%), P < 0.001; between-group comparison, P = 0.001 6 mo: 0.1 ± 0.2, comparison with baseline P < 0.001 BCVA (logMAR), mean ± SD, value for both groups, P values for between-group differences: baseline: 0.4 ± 0.3 6 mo: 0.1 ± 0.2, comparison with baseline P < 0.001 "No between-group differences in BCVA change were found (P = 0.999)" p. 794 Safety Adverse events, n (%), KDB + Phaco and iStent + Phaco, respectively, P values for between-group differences: corneal edema: 5 (2.1%); 3 (1.5%), P = 0.642 	the reduction in medications from baseline significantly greater, in the KDB + Phaco group vs. the iStent + Phaco group at 1, 3, and 6 mo follow-up BCVA improved significantly from baseline to 6 mo in both groups, and the change in BCVA was not significantly different between groups Adverse events were not different between groups, with the exception of IOP spikes, which had a significantly greater incidence in the iStent + Phaco group; all adverse events resolved spontaneously	

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 inflammation: 1 (0.4%); 4 (2%); P = 0.116 posterior capsule opacity: 1 (0.4%); 5 (2.5%), P = 0.060 posterior vitreous detachment: 2 (0.8%); 2 (1%); P = 0.823 rebound iritis: 2 (0.8%); 2 (1%), P = 0.823 IOP spikes: 15 (6.3%); 25 (12.6%); P = 0.024 Secondary surgical interventions: NR		
Trabectome +	Phaco Vs. 2x iStent + Phaco		
Kurji et al. 2017 ⁷⁹	Clinical effectiveness IOP (mm Hg), mean ± SD, Trabectome + Phaco and 2x iStent + Phaco, respectively (<i>P</i> values for between-group comparisons): • baseline: 20.92 ± 5.07; 17.47 ± 4.87, <i>P</i> = 0.026 • 6 mo: 16.0 ± 3.3; 13.6 ± 3.4, <i>P</i> = unclear (reported as <i>P</i> = 0.012 in the text but as <i>P</i> = NS in a figure) • 12 mo: shown only in a figure (i.e., no data to report), <i>P</i> > 0.05 IOP reduction from baseline (mm Hg), mean ± SD (%) (<i>P</i> values for between-group comparisons): • 6 mo: no difference between groups (reported as <i>P</i> = 0.430 in the text but as <i>P</i> < 0.05 in a figure); complete sample, -4.4 ± 4.8 • 12 mo: Trabectome + Phaco, -5.09 ± 5.73 (24%); 2x iStent + Phaco, -3.84 ± 3.80 (22%), <i>P</i> = 0.331; complete sample, -4.5 ± 4.9 Medications (number), mean ± SD (<i>P</i> values for between-group comparisons): • baseline: Trabectome + Phaco, 2.25 ± 1.34; 2x iStent + Phaco, 2.15 ± 1.21, <i>P</i> = 0.21 • 6 mo: no difference between groups (<i>P</i> = 0.387); complete sample, 1.6 ± 1.3 • 12 mo: no difference between groups (<i>P</i> = 0.947); complete sample, 1.8 ± 1.4 Medication reduction from baseline (number), mean ± SD, Trabectome + Phaco and 2x iStent + Phaco, respectively (<i>P</i> values for between-group comparisons): • 6 mo: -0.94 ± 1.24; -0.32 ± 0.59, <i>P</i> = 0.007 • 12 mo: -0.49 ± 1.17; -0.26 ± 0.73, <i>P</i> = 0.168 BCVA change from baseline: • 12 mo: Trabectome + Phaco, gained ~1.5 Snellen lines; 2x iStent + Phaco, gained ~2 Snellen lines, between-group comparison <i>P</i> = 0.417	The reduction in IOP from baseline, and change in BCVA from baseline, were not different between groups at follow-up The reduction in number of medications was greater in the Trabectome + Phaco group vs. the 2x iStent + Phaco group at 6 mo but not 12 mo follow-up There were significantly more complications in the Trabectome + Phaco group vs. the 2x iStent + Phaco group There were significantly more complications in the Trabectome + Phaco group vs. the 2x iStent + Phaco group	"At 12 months of follow-up, both techniques significantly lowered IOP, but fewer complications were observed in the [2x iStent + Phaco] group," p. 99. "[W]e conclude that, although both procedures are most relatively comparable in terms of efficacy, [2x iStent + Phaco] might be the safer option of these two MIGS procedures," p. 105.

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	Safety Overall complications, number of eyes (%): • Trabectome + Phaco, reported as 32 (88.9%) in a table or 20 (55.6%) in the abstract; 2x iStent + Phaco, 5 (14.7%), P < 0.0001		
	 Post-operative complications: Trabectome + Phaco: Uveitis, n = 1; IOP spike, n = 1; blood clot, n = 1 2x iStent + Phaco: IOP spike, n = 2 		
	 Early complications: Trabectome + Phaco: Uveitis, n = 9; hyphema, n = 5; IOP spike, n = 1; CME, n = 5; PAS, n = 5; AGSx, n = 1 2x iStent + Phaco: None Total early complications: Trabectome + Phaco, n = 22 (62.9%); 2x iStent + Phaco, n = 0 (0%), P < 0.0001 		
	Late complications: • Trabectome + Phaco: CME, n = 3; CRVO, n = 1; macular hole, n = 1; AGSx, n = 2 • 2x iStent + Phaco: Blocked iStent, n = 1 ∘ between-group comparison, P = 0.09		
Khan et al. 2015 ⁷⁸	Clinical effectiveness IOP ^a (mm Hg), mean ± SD, 2x iStent + Phaco and Trabectome + Phaco respectively (<i>P</i> values for between-group comparisons unless otherwise stated): • baseline: 19.6 ± 5.2 (SD reported as 5.3 in the abstract and text but as 5.2 in a table); 20.6 ± 6.8, <i>P</i> = 0.37 • 1 d: 14.5 ± 7.8; 16.8 ± 6.6, <i>P</i> = 0.08 • 1 wk: 17.2 ± 8.8; 19.7 ± 7.7, <i>P</i> = 0.035 • 1 mo: 14.9 ± 5.8; 15.8 ± 3.6, <i>P</i> = 0.57 • 3 mo: 14.4 ± 4.0; 15.5 ± 3.6, <i>P</i> = 0.39 • 6 mo: 13.8 ± 2.9; 16.5 ± 4.9, <i>P</i> = 0.041 • 12 mo: 14.3 ± 3.1 (compared with baseline <i>P</i> < 0.001); 17.3 ± 6.5 (compared with baseline <i>P</i> < 0.001), <i>P</i> = 0.011 Medications ^a (number), median [IQR], 2x iStent + Phaco and Trabectome + Phaco,	IOP was reduced from baseline in both groups, but was significantly lower in the 2x iStent + Phaco group vs. the Trabectome + Phaco group at 6 and 12 mo The median number of medications was reduced from baseline in both groups, but was significantly lower in the 2x iStent + Phaco group vs. the Trabectome + Phaco group at 2 and 1 an	"[2x iStent] and [Trabectome] combined with phacoemulsification led to a significant reduction in IOP and medication use, with the [2x iStent + Phaco] group achieving higher success and a lower rate of hypotony," p. 1723.
	respectively (<i>P</i> values for between-group comparisons unless otherwise stated): • baseline: 3.0 [2.0, 3.0]; 3.0 [2.0, 4.0], <i>P</i> = 0.53	Phaco group at 3, 6, and 12 mo • The incidence of	

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 1 d: 3.0 [2.0, 3.0]; 1.0 [0.0, 3.0], P < 0.001 1 wk: 2.0 [1.0, 3.0]; 3.0 [1.0, 3.0], P = 0.53 1 mo: 2.0 [1.0, 3.0]; 3.0 [2.0, 3.0], P = 0.05 3 mo: 2.0 [0.5, 3.0]; 3.0 [2.0, 4.0], P = 0.006 6 mo: 1.0 [0.0, 3.0]; 2.0 [2.0, 4.0], P = 0.012 12 mo: 1.0 [0.0, 2.0]; 2.0 [1.0, 3.0], P = 0.001; within-group comparisons with baseline both P < 0.001 Medications (number), mean ± SD, 2x iStent + Phaco and Trabectome + Phaco, respectively (P values NR): baseline: 2.86 ± 0.91; 2.90 ± 1.10 1 d: 2.47 ± 1.10; 1.30 ± 1.53 1 wk: 2.22 ± 1.18; 2.40 ± 1.30 1 mo: 2.14 ± 1.30; 2.68 ± 1.24 3 mo: 1.77 ± 1.23; 2.54 ± 1.22 6 mo: 1.63 ± 1.40; 2.42 ± 1.36 12 mo: 1.22 ± 1.28; 2.15 ± 1.35 	hyphema was lower in the 2x iStent + Phaco group vs. the Trabectome + Phaco group, but there were no other significant between-group differences in adverse events	
	 Safety Adverse events, n (%), 2x iStent + Phaco and Trabectome + Phaco, respectively: hyphema: 2 (4%); 12 (23%), P = 0.008 peripheral anterior synechiae formation: 10 (20%); 8 (15%), P = 0.61 early post-operative interventions: 4 (8%); 2 (4%), P = 0.43 intraocular pressure spike: 8 (16%); 17 (33%), P = 0.07 transitory hypotony: 2 (4%); 0 (0%), P = 0.24 glaucoma reoperation: 0 (0%); 4 (8%), P = 0.12 Trabeculectomy (n = 3, at 6 d, 3.5 mo, and 9 mo), Trabectome revision and first stage GDD (n = 1, at 11 mo) suprachoroidal hemorrhage: 0 (0%); 0 (0%), P = NA Note: For patients with reoperation (n = 4 in Trabectome + Phaco group), the values for IOP and number of medications prior to reoperation were used for the rest of the follow-up period (i.e., last observation carried forward). 		

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions		
Trabectome +	Trabectome + MICS Vs. iStent/iStent Inject + MICS				
Gonnermann et al. 2017 ⁷⁷	Clinical effectiveness IOP reduction from baseline at 12 mo post-operative (<i>P</i> values for comparison with baseline): • Trabectome + MICS: 30% (<i>P</i> < 0.001) • 2x iStent inject + MICS: 34% (<i>P</i> < 0.001) • no significant difference between groups at any time point (<i>P</i> > 0.05) • numerical values not reported for other follow-up time points Number of glaucoma medications, mean ± SD, Trabectome + MICS and 2x iStent inject + MICS, respectively (<i>P</i> values for comparison with baseline where applicable): • baseline: 2.08 ± 1.12; 2.04 ± 0.89 • 12 mo: 1.44 ± 1.29 (<i>P</i> < 0.05); 1.28 ± 1.17 (<i>P</i> < 0.05) • number of topical medications was significantly higher in Trabectome + MICS vs. 2x iStent inject + MICS at 6 wk post-operative due to post-operative treatment plan (<i>P</i> < 0.05), but there were no significant differences between groups at any other time point (all <i>P</i> > 0.05) BCVA (logMar), mean ± SD, Trabectome + MICS and 2x iStent inject + MICS, respectively (<i>P</i> values for comparison with baseline where applicable): • baseline: 0.38 ± 0.17; 0.32 ± 0.20 • 12 mo: 0.10 ± 0.12 (<i>P</i> < 0.001); 0.06 ± 0.09 (<i>P</i> < 0.001) • no significant difference between groups at any time point (<i>P</i> > 0.05) Safety Severe intraoperative and post-operative complications: None Minor events: • reflux bleeding occurred in 100% of patients and resolved spontaneously • Trabeculectomy had to be performed in 2/27 eyes in each group due to insufficient IOP	Reduction in IOP and number of medications, improvement in BCVA, and safety, were similar between the Trabectome + MICS and 2x iStent Inject + MICS groups	"Ab interno trabeculectomy [with Trabectome] and iStent® inject were both effective in lowering IOP with a favourable and comparable safety profile in an intraindividual comparative study over a 12-months follow-up in OAG. However, longer follow-up of these patients will be necessary to determine long-term outcomes and to evaluate significant differences," p. 359.		
	lowering after MIGS				
	bers of iStents + Phaco				
Vlasov and Kim 2017 ⁸⁰	Clinical effectiveness IOP (mm Hg), mean ± SD, iStent + Phaco and 2x iStent + Phaco, respectively (P values for comparison with baseline unless otherwise stated): • baseline, different values reported in two separate tables: • study Table 1: 16.67 ± 4.1; 18.33 ± 3.99, between-group P = 0.0870 • study Table 2:16.67 ± 3.82; 18.33 ± 3.99, between-group P = 0.4996	IOP was significantly reduced from baseline at 1, 3, 6, and 12 mo follow-up, but IOP was not different between groups at any time point	"Both [iStent + Phaco and 2x iStents + Phaco] demonstrated a significant reduction in IOP at 12 months. [] Only [2x iStent + Phaco] demonstrated a statistically significant reduction		

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 1 d: 20.17 ± 7.44 (<i>P</i> = 0.0128); 19.5 ± 8.22 (<i>P</i> = 0.4944), between-group <i>P</i> = 0.7348 1 wk: 16.78 ± 5.23 (<i>P</i> = 0.917); 15.83 ± 4.91 (<i>P</i> = 0.0376), between-group <i>P</i> = 0.4673 1 mo: 14.76 ± 3.77 (<i>P</i> = 0.0389); 13.85 ± 3.21 (<i>P</i> = 0.0001), between-group <i>P</i> = 0.6190 3 mo: 14.74 ± 4.77 (<i>P</i> = 0.0755); 14.17 ± 2.81 (<i>P</i> = 0.0001), between-group <i>P</i> = 0.6190 6 mo: 14.44 ± 4.27 (<i>P</i> = 0.0233); 14.71 ± 2.11 (<i>P</i> = 0.0014), between-group <i>P</i> = 0.8107 12 mo, different values for SDs reported in two separate tables: study Table 1: 14.45 ± 3.8 (<i>P</i> = 0.0251); 14.31 ± 1.72 (<i>P</i> = 0.0014), between-group <i>P</i> = 0.9051 study Table 2: 14.45 ± 3.96 (<i>P</i> = 0.0251); 14.31 ± 1.80 (<i>P</i> = 0.0014), between-group <i>P</i> = 0.9051 IOP reduction from baseline (%) at 12 mo post-operative, iStent + Phaco and 2x iStent + Phaco, respectively (<i>P</i> values for between-group comparison): 13.3%; 21.9%; <i>P</i> = 0.9051 Medications (number), mean ± SD, iStent + Phaco and 2x iStent + Phaco, respectively (<i>P</i> values for comparison with baseline unless otherwise stated): baseline: 2.33 ± 1.40; 2.37 ± 1.30, between-group <i>P</i> = 0.9205 1 d: 0.91 ± 1.44 (<i>P</i> = 0.0001); 1.2 ± 1.42 (<i>P</i> = 0.004), between-group <i>P</i> = 0.4298 1 wk: 1.29 ± 1.34 (<i>P</i> = 0.002); 0.93 ± 1.21 (<i>P</i> = 0.0001), between-group <i>P</i> = 0.2725 1 mo: 1.74 ± 2.58 (<i>P</i> = 0.2237); 1.12 ± 1.15 (<i>P</i> = 0.0005), between-group <i>P</i> = 0.2595 3 mo: 1.59 ± 2.48 (<i>P</i> = 0.1324); 1.3 ± 1.37 (<i>P</i> = 0.0066), between-group <i>P</i> = 0.4288 6 mo: 1.91 ± 2.35 (<i>P</i> = 0.3528); 1.71 ± 1.22 (<i>P</i> = 0.1020), between-group <i>P</i> = 0.4305 Safety Intraoperative complications: None Complications, iStent + Phaco group, n: CME, 4 increased IOP because of a steroid response, 2 central retinal vein occlusion leading to development of anterior-chamber angle neovascularization and neovascular glaucoma, 1 Complications, 2x iStent +	At 12 mo, the number of medications was reduced from baseline only in the 2x iStent + Phaco group, and the number of medications was not significantly different between groups at any time point There were no intraoperative complications in either group There tended to be more post-operative complications in the iStent + Phaco group, but this was not tested statistically	in medication burden," p. 222. "No serious, vision-threatening complications were seen in our study that was directly attributable to the iStent," p. 225.

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
Belovay et al. 2012 ⁸³	Clinical effectiveness IOP (mm Hg), mean ± SD where reported, 2x iStent + Phaco and 3x iStent + Phaco, respectively (<i>P</i> values for between-group comparisons unless otherwise stated): • baseline: 17.3 ± 4.0; 18.6 ± 4.0, <i>P</i> = 0.24 • 1 mo: 13.4; 15.1, <i>P</i> = NS • 3 mo: 13.3; 14.5, <i>P</i> = NS • 6 mo: 13.5; 14.6, <i>P</i> = NS • 9 mo: data not reported • 12 mo: 13.8 (comparison with baseline, <i>P</i> < 0.001); 14.8 (comparison with baseline, <i>P</i> < 0.001), <i>P</i> = 0.78 Reduction in IOP from baseline at 12 mo (mm Hg), mean ± SD where reported, 2x iStent + Phaco and 3x iStent + Phaco, respectively: • -3.5; -3.9 ± 13.1, between-group comparison <i>P</i> = 0.76 Proportion of patients with IOP ≤15 mm Hg at 12 mo, n (%), 2x iStent + Phaco and 3x iStent + Phaco, respectively: • 21 (75%); NR, between-group comparison <i>P</i> = NR Medications (n), mean ± SD, 2x iStent + Phaco and 3x iStent + Phaco, respectively, (<i>P</i> values for between-group comparisons unless otherwise stated): • baseline: 2.8 ± 0.8; 2.6 ± 1.2, <i>P</i> = 0.70 • 1 mo: 1.7; 1.0, <i>P</i> = NS • 3 mo: 1.2; 0.8, <i>P</i> = NS • 6 mo: 1.2; 0.4, <i>P</i> = 0.009 • 12 mo: 1.0 (comparison with baseline, P < 0.001); 0.4 (comparison with baseline, P < 0.001), <i>P</i> = 0.04 No medications, n (%), 2x iStent + Phaco and 3x iStent + Phaco, respectively: • 12 mo: 13 (46%); 18 (72%), <i>P</i> = NR CDVA at 12 mo, n (%), 2x iStent + Phaco and 3x iStent + Phaco, respectively. <i>P</i> values not reported: • 20/40 or better: 18 (64%); 19 (76%) • 20/50–20/100: 6 (21%); 5 (20%) • 20/50–20/100: 6 (21%); 5 (20%) • 20/50-20/100: 6 (21%); 5 (20%)	 IOP was significantly reduced from baseline at 12 mo follow-up in both groups, but was not significantly different between groups at any time point The number of medications was significantly reduced from baseline at 12 mo in both groups (comparison with baseline NR at other time points), and was significantly lower in the 3x iStent + Phaco group vs. the 2x iStent + Phaco group at 6 and 12 mo follow-up CDVA was similar between groups at 12 months but this was not tested statistically Complications were not reported separately for each group 	"The implantation of 2 or 3 trabecular micro-bypass stents combined with cataract surgery was performed safely with a reduction in IOP and topical ocular hypotensive medications," p. 1916. "Implantation of multiple trabecular micro-bypass stents has the potential to further reduce IOP and topical ocular hypotensive medications versus implantation of 1 trabecular micro-bypass stent," p. 1916.

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 Safety Overall complications, n, P values NR: blockage of the opening of the stent lumen, 8 eyes these patients were treated with neodymium: YAG laser or argon laser (i.e., secondary interventions) small hyphema, 1 eye iStent not seated well, 1 eye steroid response resulting in elevated IOP, 2 eyes death due to unrelated systemic illness, 1 patient 		
ECP + iStent	+ Phaco Vs. iStent + Phaco		
Ferguson et al. 2017 ⁸¹	Clinical effectiveness IOP (mm Hg), mean ± SD where reported, ECP + iStent + Phaco and iStent + Phaco, respectively (<i>P</i> values for comparison with baseline, where reported): • baseline: 21.49 ± 9.59; 20.66 ± 3.23 • 1 d: 15.78; 21.56 • 1 wk: 15.75; 18.46 • 1 mo: 15.31; 16.42 • 3 mo: 15.21; 16.36 • 6 mo: reported as 14.34 in a figure and 14.45 in the text (from the figure, 14.34 looks to be the correct value; <i>P</i> < 0.01); 16.00 • 12 mo: 14.35 ± 3.5 (<i>P</i> < 0.01); 16.18 ± 4.14 (<i>P</i> < 0.01) Reduction in IOP from baseline: • The IOP reduction was greater in ECP + iStent + Phaco (7.14 mm Hg) vs. iStent + Phaco (4.48 mm Hg) at 12 mo (<i>P</i> < 0.01); <i>P</i> values not reported for other time points • Mean reduction in IOP (mm Hg) from baseline to 12 mo post-operative follow-up, stratified by preoperative IOP, ECP + iStent + Phaco and iStent + Phaco, respectively (<i>P</i> values NR): • ≤ 16 mm Hg: 2.40; no eyes • 17-19 mm Hg: 4.23; 2.48 • 20-22 mm Hg: 5.91; 3.82 • ≥ 23 mm Hg: 12.89; 9.45 Number of medications, mean ± SD where reported, ECP + iStent + Phaco and iStent + Phaco, respectively (<i>P</i> values for comparison with baseline, where reported): • baseline: 1.78 ± 0.99; 1.68 ± 0.84 • 1 d: 1.71; 0.70	IOP reductions were greater, but medication use was also higher, in the ECP + iStent + Phaco group vs. the iStent + Phaco group When stratified by preoperative IOP, mean IOP reductions tended to be greater in those with higher initial IOP (not tested statistically) Safety was similar across treatment groups	"although the IOP reduction was more significant in the study group [ECP + iStent + Phaco], the medication use was higher in this group postoperatively at 12 months, which might account for the lower IOP," p. 381. "Patients who had implantation of the microbypass stent [iStent] in combination with cataract surgery and ECP had significantly better IOP reduction than those who did not have ECP. The combination procedure was also effective in patients with severe OAG," p. 377.



Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 1 wk: 1.92; 1.02 1 mo: 1.55; 0.74 3 mo: 1.62; 0.61 6 mo: 1.38 (<i>P</i> < 0.01); 0.78 12 mo: 1.10 ± 1.00 (<i>P</i> < 0.01); 0.62 (<i>P</i> < 0.01); between-group comparison <i>P</i> < 0.01 Reduction in number of medications from baseline: The reduction in number of medications was greater (63% vs. 38%), and the number of medications was significantly lower in iStent + Phaco vs. ECP + iStent + Phaco at 12 mo (<i>P</i> < 0.01) At 12 mo, 17 patients (35.4%) in ECP + iStent + Phaco were taking 0 medications Safety IOP increase of ≥15 mm Hg: ECP + iStent + Phaco: n = 4 eyes (8%); iStent + Phaco: "results were similar" p. 379 (values not reported) Need for secondary surgery (n), ECP + iStent + Phaco and iStent + Phaco, respectively: 2 eyes; 2 eyes Significant post-operative complications: None 		
ECP + Phaco	Vs. Trabectome + Phaco		
Moghimi et al. 2018 ⁸⁹	Clinical effectiveness IOP (mm Hg), mean \pm SD, ECP + Phaco and Trabectome + Phaco, respectively (<i>P</i> values for between-group comparisons): • baseline: 20.6 ± 5.4 ; 18.7 ± 4.7 , $P = 0.30$ • $1 d: 21.5 \pm 9.6$; 13.6 ± 4.7 , $P = 0.003$ • $1 wk: 15.3 \pm 5.1$; 15.5 ± 6.3 , $P = 0.99$ • $1 mo: 18.0 \pm 5.8$; 15.3 ± 3.5 , $P = 0.15$ • $3 mo: 16.5 \pm 5.2$; 14.1 ± 3.3 , $P = 0.18$ • $6 mo: 16.0 \pm 5.3$; 13.9 ± 2.9 , $P = 0.17$ • $12 mo: 16.7 \pm 4.3$; 15.4 ± 4.4 , $P = 0.45$ Medications (number), mean \pm SD, ECP + Phaco and Trabectome + Phaco, respectively (<i>P</i> values for between-group comparisons): • baseline: 2.0 ± 1.0 ; 1.3 ± 1.2 , $P = 0.06$	IOP was numerically reduced from baseline up to 12 mo follow-up in both groups, but this was not tested statistically IOP was transiently greater in ECP + Phaco versus Trabectome + Phaco at 1 day postoperative, but there were no significant differences between groups at any other time point The number of medications was not	"All procedures significantly lowered IOP. [Trabectome + Phaco] resulted in fewest complications," p. 557.

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 1 wk: 0.3 ± 0.7; 0.0 ± 0.0, P = 0.05 1 mo: 0.5 ± 0.9; 0.2 ± 0.6, P = 0.30 3 mo: 0.8 ± 1.0; 0.3 ± 0.7, P = 0.09 6 mo: 0.8 ± 1.1; 0.3 ± 0.5, P = 0.05 12 mo: 1.2 ± 1.1; 0.7 ± 0.9, P = 0.12 Visual field (dB), mean ± SD, ECP + Phaco and Trabectome + Phaco, respectively (P values NR): baseline: -9.1 ± 5.7; -8.0 ± 4.3 12 mo: -8.0 ± 6.1; -6.5 ± 4.2 "After 1 year, there were no significant differences in the mean change in any group" p. 560 Safety Complications, n (%), ECP + Phaco and Trabectome + Phaco, respectively: fibrin reaction: 7 (20%); 0 (0%) hyphema: 3 (9%); 6 (23%) layered hyphema: 1 (3%); 1 (4%) IOP spike (≥ 10 mm Hg increase from baseline): 7 (20%); 1 (4%) no severe complications "such as a shallow anterior chamber, bleb leak, choroidal detachment, hypotony, or infection" P values were only reported for comparisons across three groups (the third group did not meet eligibility criteria for inclusion in the present report) Requirement for secondary glaucoma surgery: None 	significantly different between groups at baseline or any follow-up time point The mean change in VF from baseline to 12 mo follow-up was not significantly different between groups The number of complications was not compared statistically between groups No patients (in either group) required secondary surgery	
	ract Surgery Vs. Filtration Surgery + Cataract Surgery		
Ting et al. 2018 ⁸⁷	Clinical effectiveness IOP (mm Hg), mean ± SD, Trabectome + Phaco and Trabeculectomy + Phaco, respectively (P values for between-group comparisons): • baseline: 20.0 ± 5.3; 23.1 ± 6.4, P = 0.22 • 6 mo: 17.5 ± 3.8; 16.0 ± 6.0, P = 0.54 • 12 mo: 16.8 ± 2.7; 17.1 ± 5.0, P = 0.57 Reduction in IOP from baseline (mm Hg), mean ± SD, Trabectome + Phaco and Trabeculectomy + Phaco, respectively (P values for between-group comparisons): • 6 mo: -2.8 ± 3.2; -7.4 ± 9.7, P = 0.54	IOP, reduction in IOP from baseline, and number of medications were not significantly different between groups at any time point, but the study was likely underpowered There were no significant between-group	"[Trabectome + Phaco] achieved similar IOP lowering at 6 and 12 months compared with [Trabeculectomy + Phaco] with a similar number of glaucoma medications required at 1 year and no serious complications identified in the [Trabectome + Phaco] group. Our results with [Trabectome +

Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	 • 12 mo: −2.7 ± 5.3; −6.4 ± 8.7, P = 0.35 Medications (number), mean ± SD, Trabectome + Phaco and Trabeculectomy + Phaco, respectively (P values for between-group comparisons): • baseline: 1.80 ± 1.31; 1.40 ± 1.13, P = 0.59 • 6 mo: 0.78 ± 1.39; 0.38 ± 0.74, P = 0.68 • 12 mo: 0.44 ± 0.88; 0.75 ± 0.89, P = 0.41 Safety Early post-operative complications (≤ 30 days post-operative), n %, Trabectome + Phaco and Trabeculectomy + Phaco, respectively, between-group comparison P = 0.60: • Mild: • PAS: 5 (50%); 1 (11%) • Moderate: • day 1 IOP spike: 5 (50%); 3 (33%) • hypotony: 1 (10%); 3 (33%) • bleb leak: NA; 2 (22%) • steroid response: 1 (10%); 0 (0%) • Severe: • hypotony maculopathy: 0 (0%); 2 (22%) Late post-operative complications (> 30 days post-operative), n %, Trabectome + Phaco and Trabeculectomy + Phaco, respectively, between-group comparison P = 0.41: • Mild: • PAS: 5 (50%); 2 (22%) • Moderate: • chronic/recurrent uveitis: 2 (22%); 2 (22%) • encapsulated bleb: NA; 1 (11%) • Severe: • hypotony maculopathy: 0 (0%); 0 (0%) • choroidal effusion: 0 (0%); 0 (0%) • choro	differences in early or late post-operative complications, or need for secondary glaucoma surgery, but the study was likely underpowered	Phaco] are consistent with existing literature, supporting its favourable safety profile for patients with comorbid cataracts, mild to moderate glaucoma, and either a target IOP reduction to the mid- to high teens or decreased reliance on topical glaucoma medications. However, for patients with more advanced glaucoma requiring IOP reduction into the low to midteens, we suggest [Trabeculectomy + Phaco] should be considered, keeping in mind the increased risk of severe complications," p. 6. "Mild and moderate complications were seen in both treatment groups, but severe complications were seen only in the [Trabeculectomy + Phaco group]. One secondary glaucoma procedure was required in the [Trabectome + Phaco] group," p. 1.

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Kinoshita- Nakano et al. 2018 ⁸⁵	Clinical effectiveness IOP (mm Hg), mean \pm SD, Trabectome + Phaco and Trabeculotomy + Phaco, respectively (<i>P</i> values for between-group comparisons): • baseline: 21.0 ± 5.7 ; 23.0 ± 7.0 , $P = 0.33$ • 3 mo : 14.5 ± 3.3 ; 14.3 ± 2.5 , $P = 0.97$ • 6 mo : 15.1 ± 3.6 ; 15.0 ± 2.7 , $P = 0.77$ • 12 mo : 15.6 ± 3.5 ; 15.3 ± 3.2 , $P = 0.53$ • 18 mo : 15.4 ± 3.3 ; 14.9 ± 2.9 , $P = 0.58$ • 24 mo : 14.9 ± 2.8 ; 15.0 ± 3.4 , $P = 0.70$ • 36 mo : 14.6 ± 2.5 ; 14.6 ± 3.2 , $P = 0.48$ Reduction in IOP from baseline (%), mean \pm SD, Trabectome + Phaco and Trabeculotomy + Phaco, respectively (<i>P</i> values for between-group comparisons): • 3 mo : 27.7 ± 20.1 ; 34.3 ± 15.4 , $P = 0.15$ • 6 mo : 25.9 ± 20.2 ; 32.0 ± 13.9 , $P = 0.19$ • 12 mo : 21.8 ± 20.7 ; 30.3 ± 16.5 , $P = 0.050$ • 18 mo : 20.5 ± 19.5 ; 33.0 ± 23.4 , $P = 0.042$ • 24 mo : 22.0 ± 18.0 ; 33.4 ± 14.8 , $P = 0.025$ • 36 mo : 26.5 ± 25.0 ; 33.9 ± 14.0 , $P = 0.074$ Medications (number), mean \pm SD, Trabectome + Phaco and Trabeculotomy + Phaco, respectively (<i>P</i> values for between-group comparisons): • baseline: 3.2 ± 0.9 ; 3.2 ± 0.8 , $P = 0.49$ • 3 mo : 2.3 ± 1.3 ; 0.9 ± 0.6 , $P < 0.0001$ • 6 mo : 2.1 ± 1.3 ; 1.3 ± 0.8 , $P = 0.004$ • 12 mo : 2.2 ± 1.5 ; 1.6 ± 1.2 , $P = 0.055$ • 24 mo : 2.2 ± 1.5 ; 1.6 ± 1.2 , $P = 0.055$ • 24 mo : 2.7 ± 1.4 ; 2.5 ± 1.4 , $P = 0.078$ • 36 mo : 2.7 ± 1.4 ; 2.5 ± 1.4 , $P = 0.067$ Safety None reported exclusively for the subgroup of interest	IOP was not different between groups at baseline or any follow-up time point The % reduction in IOP from baseline was significantly greater in the Trabeculotomy + Phaco group vs. the Trabectome + Phaco group at 18 and 24 mo only The number of medications was significantly lower in the Trabeculotomy + Phaco group vs. the Trabectome + Phaco group at 3, 6, and 12 mo follow-up but was not different between groups at 18, 24, or 36 mo	"IOP reduction targets and expected success rates may not be very different between the two surgical procedures," p. 7.
Marco et al. 2017 ⁸²	Clinical effectiveness IOP (mm Hg), mean ± SD, ECP + Phaco and Trab + Phaco, respectively (<i>P</i> values for between-group comparisons): • baseline: 19.9 ± 10.2; 19.2 ± 7.2, <i>P</i> = 0.589	IOP was not different between groups at baseline or 6 mo follow- up; IOP was transiently	"Overall, while [ECP + Phaco] produced similar improvements in IOP and visual acuity as [Trab + Phaco] at 6 months,

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	 1 d: 22.1 ± 7.8; 16.0 ± 12.3, P = 0.008 6 mo: 14.2 ± 3.6; 13.0 ± 2.5, P = 0.240 Reduction in IOP from baseline (mm Hg), mean ± SD: 6 mo: ECP + Phaco, -5.7 ± 10.8; Trab + Phaco, -6.2 ± 7.4, P = 0.376 Reduction in IOP from baseline (%), mean ± SD: 6 mo: ECP + Phaco, 28.8 ± 34.0; Trab + Phaco, 31.4 ± 25.5, P = 0.428 Medications (number), mean ± SD, ECP + Phaco and Trab + Phaco, respectively (P values for between-group comparisons): baseline: 2.5 ± 1.2; 2.7 ± 1.2, P = 0.667 6 mo: 1.39 ± 1.09; 0.48 ± 0.92, P = 0.0064 number of medications was significantly greater in ECP + Phaco vs. Trab + Phaco from week 1 to 6 mo (P < 0.005; data shown only in a figure, therefore no values to report) Reduction in medications from baseline (number), mean ± SD: 6 mo: ECP + Phaco, 1.17 ± 1.13; Trab + Phaco, 2.10 ± 1.47, P = 0.023 Change in VA from baseline (logMAR), mean ± SD, ECP + Phaco and Trab + Phaco, respectively: 1 wk: NR; "significantly reduced" (p. 180; P = 0.03 compared with baseline) 6 mo: 0.24 ± 0.50 (from approximately 20/90 to 20/50); 0.33 ± 0.48 (from approximately 20/80 to 20/35), between-group comparison P = 0.388 Safety IOP spike, number (%): 1 d: ECP + Phaco, 12 (50.0%); Trab + Phaco, 6 (20.7%), P = 0.040 Intraoperative complications: ECP + Phaco: posterior capsular rupture with vitreous loss requiring anterior vitrectomy (n = 2), hyphema preventing application of further laser (n = 1) Trab + Phaco: none 	greater post-operative (at 1 d) in the ECP + Phaco group vs. the Trab + Phaco group, possibly due to retained viscoelastic (part of the ECP procedure) • The reduction in medication use from baseline was greater in the Trab + Phaco group vs. the ECP + Phaco group • VA was significantly improved at 6 mo in both groups • There tended to be more intraoperative complications in ECP + Phaco group vs. the Trab + Phaco group, and more early and late post-operative complications in the Trab + Phaco group, but these differences were not tested statistically	[ECP + Phaco] was associated with fewer cases of complete success, with many patients requiring additional medications. In addition, patients in the [ECP + Phaco] group experienced higher immediate IOP spikes and anterior chamber inflammatory reactions. In comparison, [Trab + Phaco] patients experienced higher levels of complete success, without the need of postoperative medications," p. 182.



Study Citation	Quantitative Findings or Narrative Summary	Interpretation	Authors' Conclusions
	Early (< 30 d) post-operative complications: ECP + Phaco: none Trab + Phaco: hypotony (n = 5), serous choroidal effusion (n = 1), bleb leak (n = 1), laser suture lysis (n = 13), bandage contact lens (n = 3) Late (> 30 d) post-operative complications: ECP + Phaco: none Trab + Phaco: needling of bleb (n = 2)		

1x = one device; 2x = two devices; 3x = three devices; AGI = Ahmed glaucoma implant; AGSx = additional glaucoma surgery; BCVA = best-corrected visual acuity; CDVA = corrected-distance visual acuity; CI = confidence interval; CME = cystoid macular edema; d = days; dB = decibel; DIOP = diurnal intraocular pressure; ECP = endoscopic cyclophotocoagulation; GDD = glaucoma drainage device; GDD-2 = second Baerveldt glaucoma implant 250 or 350; Hydrus = Hydrus Microstent; HR = hazard ratio; IOP = intraocular pressure; IQR = inter-quartile range; ITT = intention-to-treat; LASIK = laser in situ keratomileusis; logMAR = logarithm of the minimum angle of resolution; LP = light perception; LPI = laser peripheral iridotomy; MDALL = Medical Devices Active Licence Listing; MICS = micro-incision cataract surgery; MIGS = minimally invasive glaucoma surgery; MMC = mitomycin C; mo = month; NR = not reported; NS = non-significant; PAS = peripheral anterior synechiae; Phaco = phacoemulsification; PSD = pattern standard deviation; PP = per-protocol; QoL = quality of life; SLT = selective laser trabeculoplasty; Trab + Phaco = Trabeculectomy with mitomycin C + Phacoemulsification; VA = visual acuity; VF = visual field; vs. = versus; wk = week; y = year; YAG = yttrium-aluminum-garnet.