

Behandlungsbeginn beim Glaukom

Wann? Womit?

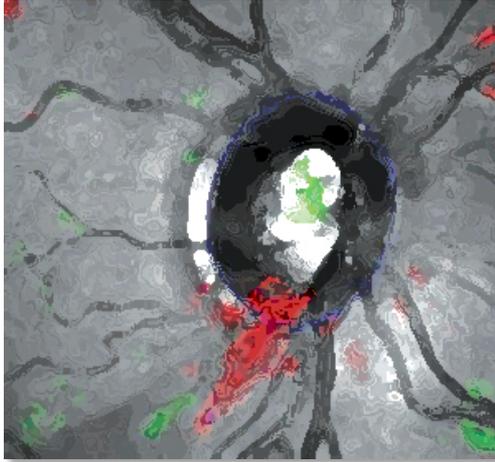
Oder doch noch warten?

Clemens A. Strohmaier

Universitätsklinik für Augenheilkunde und Optometrie

Kepler Universitätsklinikum

Vorstand: Univ.-Prof. Dr. Matthias Bolz



Behandlungsbeginn ~~beim Glaukom~~ bei verschiedenen Glaukomformen: Wann? Womit? Oder doch noch warten?

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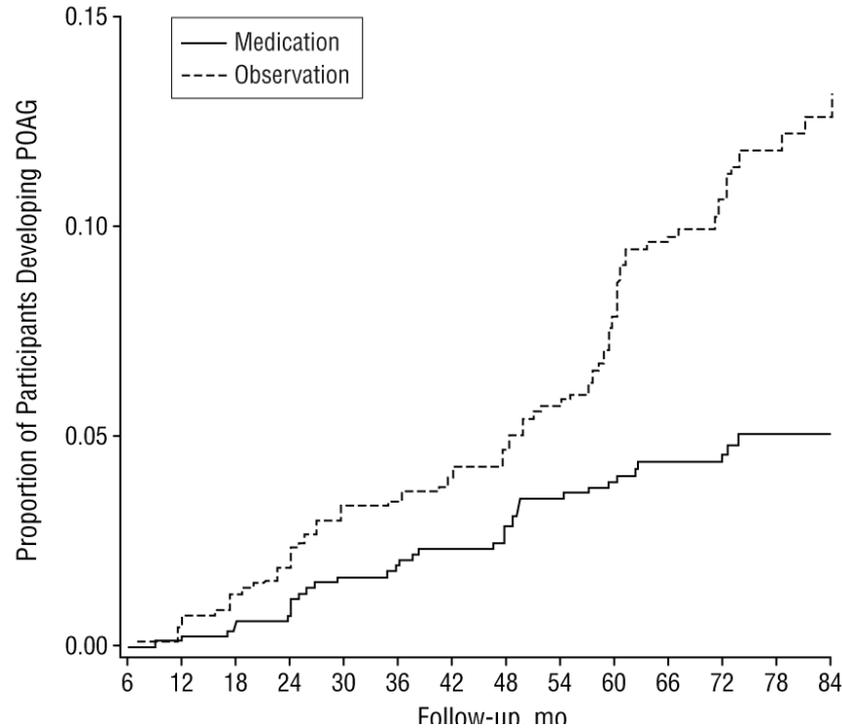
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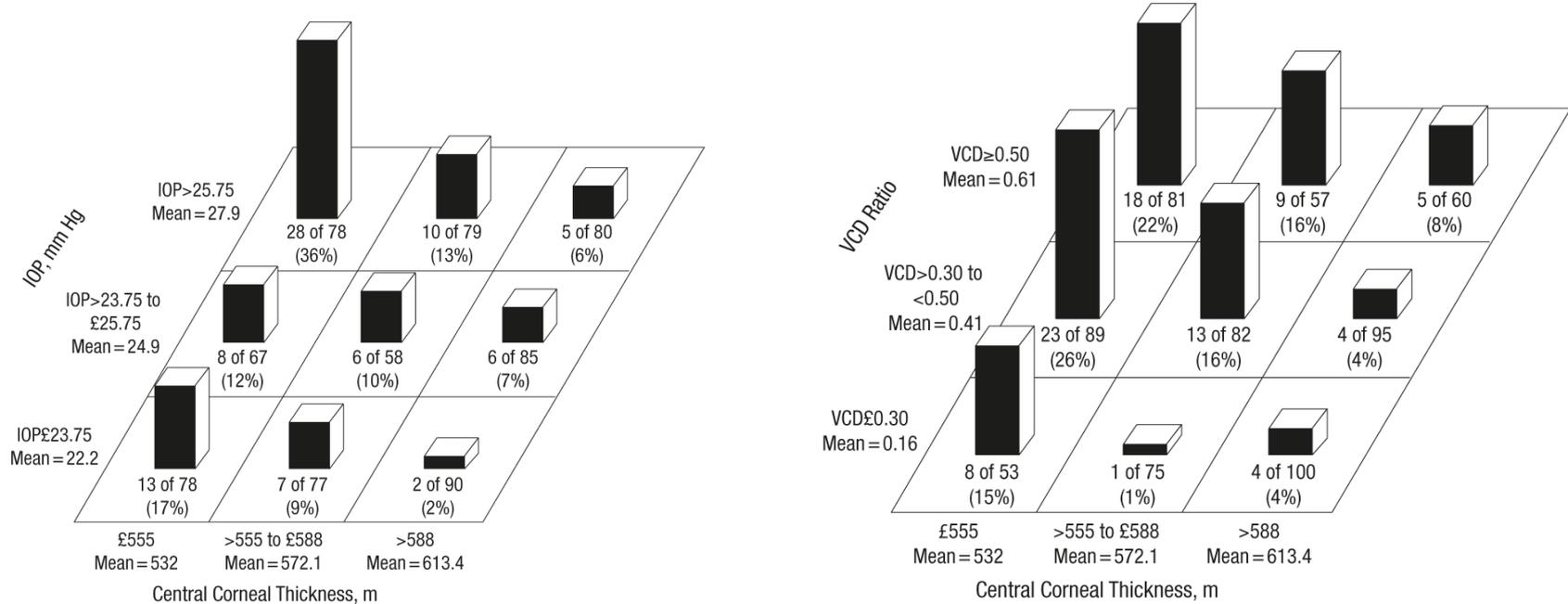
Häufige Glaukomformen und ihre Therapie

- OHT
- POWG
- NDG
- WBG

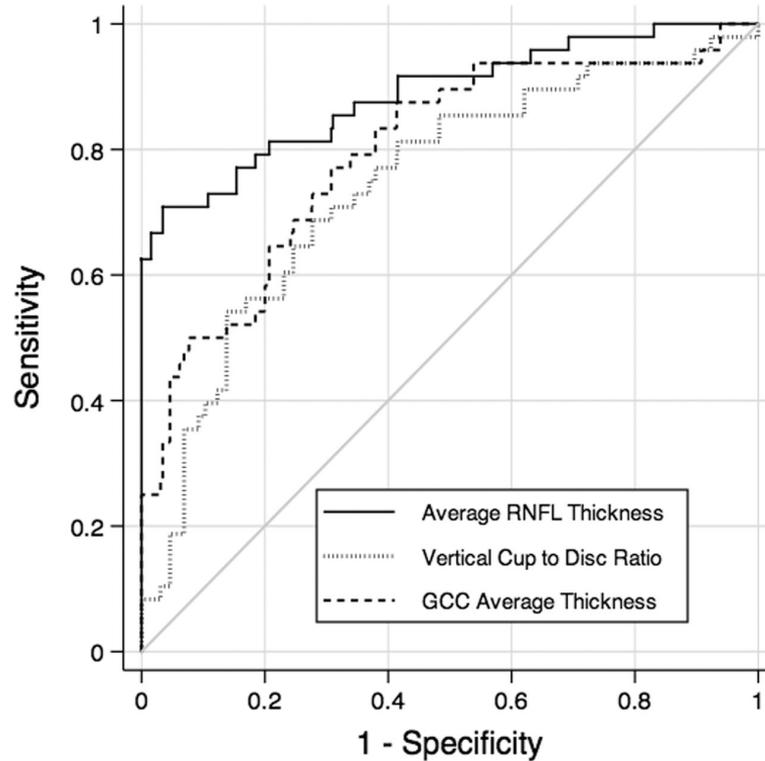
Was wir von der OHTS wissen



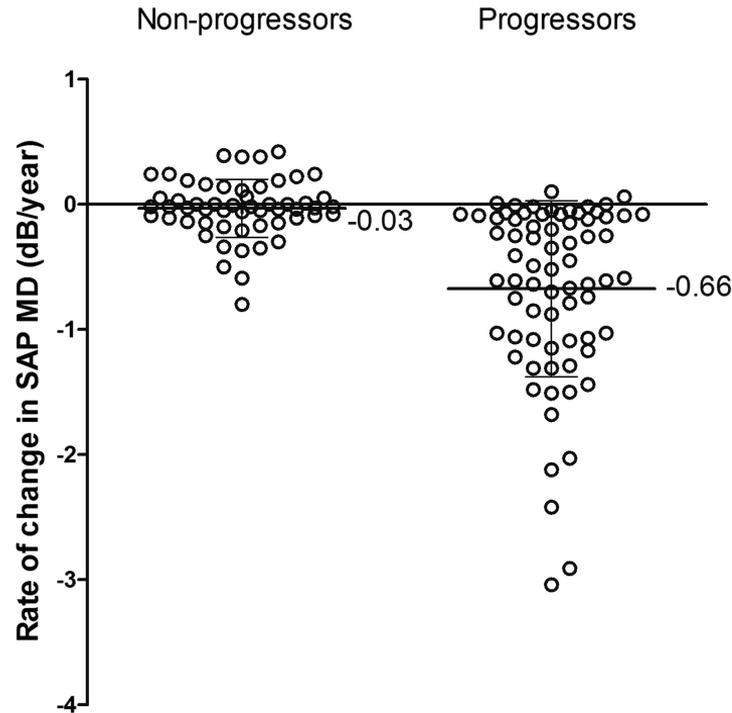
Was wir von der OHTS wissen



Detektion von präperimetrischen Glaukomen



Wenn es doch zur Progression kommt...



First-line Therapie bei OHT und POWG LiGHT Trial

	Eye drops group	SLT group
Treatment intensity		
Total number of SLT treatments at 36 months	6*	770
Number of SLT treatments per eye		
One	6 (1.0%)	453 (74.1%)
Two	0 (0%)	157 (25.7%)
Three†	0 (0%)	1 (0.2%)
Number of medications per eye at target IOP at 36 months‡		
No medication	16 (3.0%)	419 (78.2%)
One	346 (64.6%)	64 (12.0%)
Two	99 (18.5%)	21 (3.9%)
Three	35 (6.5%)	4 (0.8%)
Four	3 (0.6%)	1 (0.2%)
Eyes not at target at 36 months	37 (7.0%)	27 (5.0%)

Gazzard G, Lancet 2019

Management der OHT

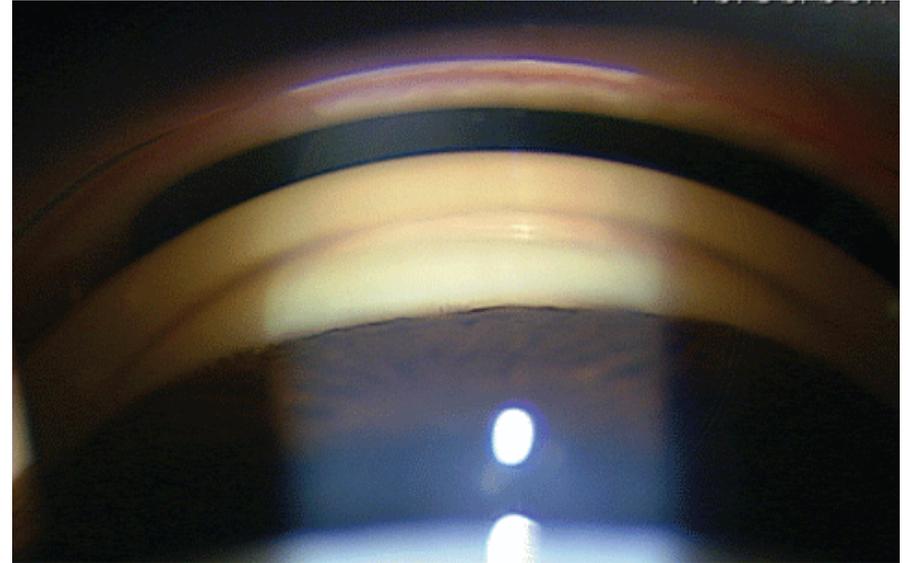
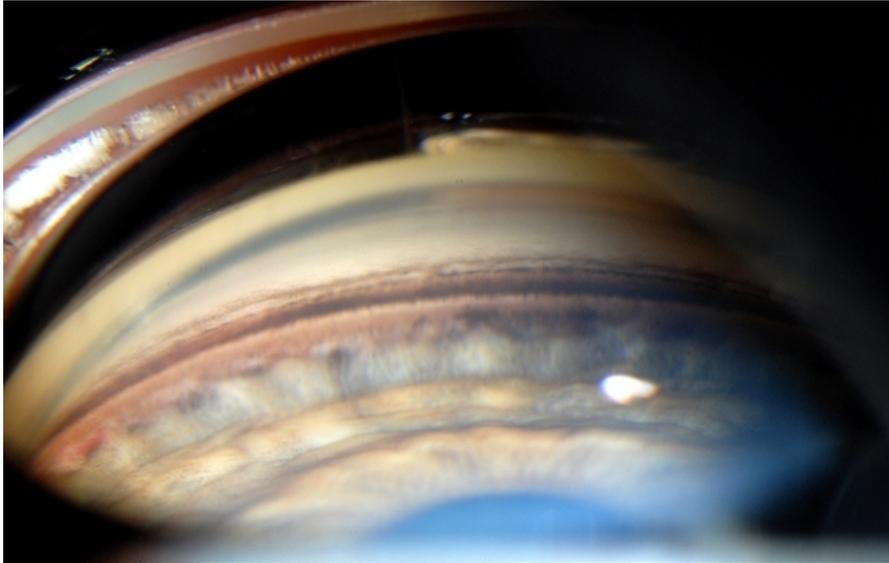
- Risikofaktoren: Fam. Anamnese et. al.
- Baseline OCT/GF (PSD)
- Klinische US (IOD, CDR, VK Tiefe)
- CCT

Pat. mit 25mmHg IOD und GF Defekt - Therapie?

- a. Betablocker
- b. CA Hemmer
- c. Prostaglandin Analogon
- d. Alpha2 Agonist
- e. SLT?

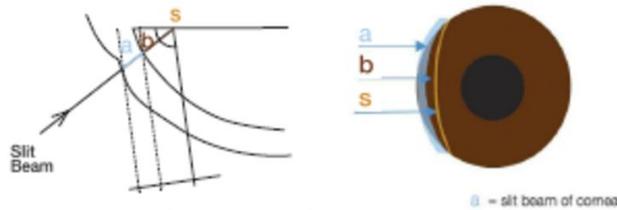
- f. **Alle notwendigen US für Diagnose**

Gonioskopie



Häufige Glaukomformen und ihre Therapie

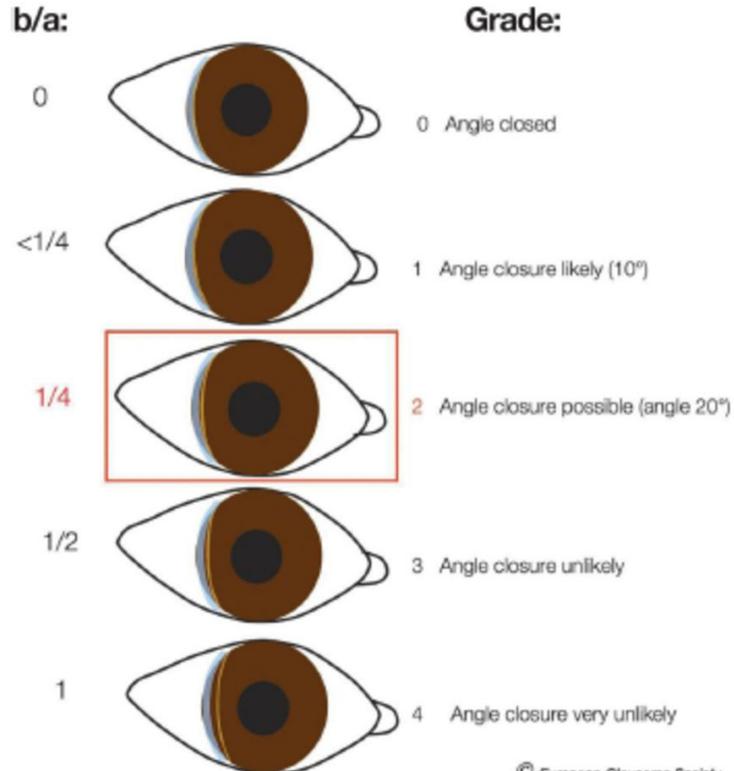
- OHT
- POWG
- **WBG**
- NDG



Thin slit beam on peripheral cornea, near the limbus, at a 60° observation angle.

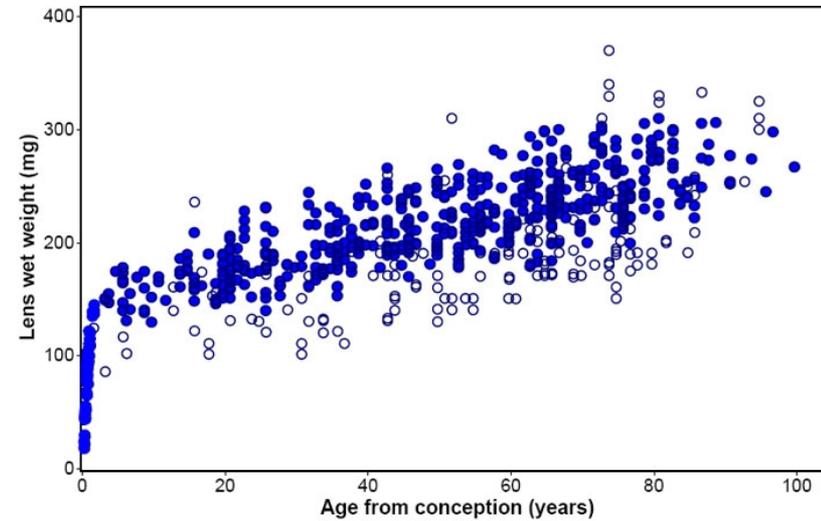
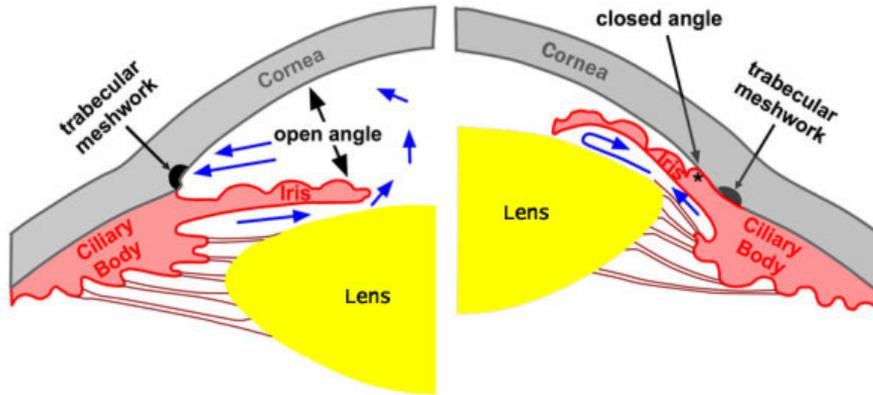
a = slit beam of cornea
b = anterior chamber
s = slit beam of iris

b/a: ratio of slit thickness of the cornea (a) to the depth of the anterior chamber (b)



- Van Herick Test
 - Einfach durchführbar
 - Ca. 10% Fehldiagnosen

Winkelblock(glaukom)

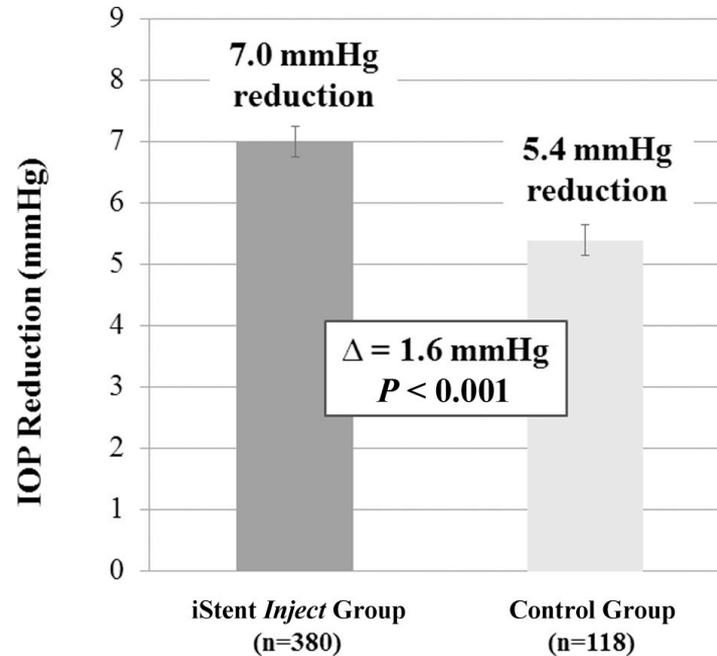


Effectiveness of early lens extraction for the treatment of primary angle-closure glaucoma (EAGLE): a randomised controlled trial

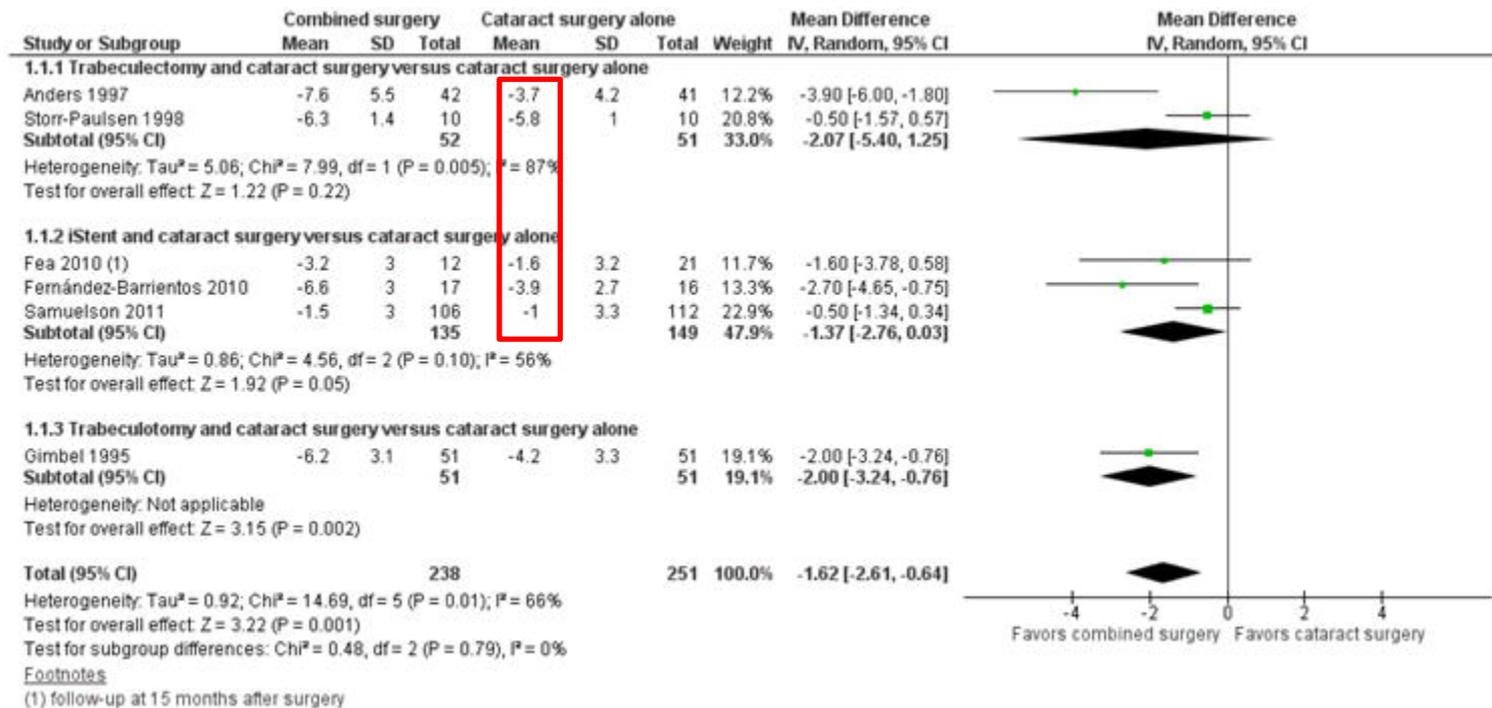
Eagle Trial - Ergebnisse

	CLE	Standard		
Intraocular pressure (mm Hg)				
Baseline	208, 29.5 (8.2)	211, 30.3 (8.1)	..	..
6 months	195, 15.7 (4.3)	202, 19.2 (5.2)	..	..
12 months	192, 15.9 (3.2)	195, 18.4 (4.3)	..	..
24 months	186, 17.0 (3.9)	183, 18.8 (4.6)	..	..
36 months	182, 16.6 (3.5)	184, 17.9 (4.1)	..	..
Baseline vs 36 months	..	..	-1.18 (-1.99 to -0.38)	0.004
Medications (eye drops)				
Baseline	204, 1.0 (1.0)	209, 1.0 (1.0)	..	..
6 months	192, 0.4 (0.7)	200, 1.0 (0.9)	..	..
12 months	186, 0.3 (0.6)	193, 1.1 (0.9)	..	..
24 months	177, 0.4 (0.8)	180, 1.2 (1.0)	..	..
36 months	178, 0.4 (0.8)	181, 1.3 (1.0)	..	..
36 months vs baseline	..	..	0.338 (0.264 to 0.432)	<0.0001

Phakoemulsifikation zur IOD Senkung



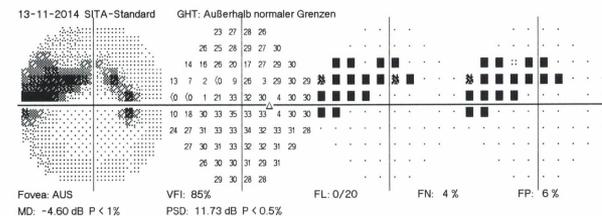
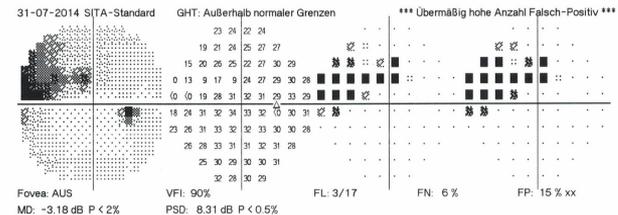
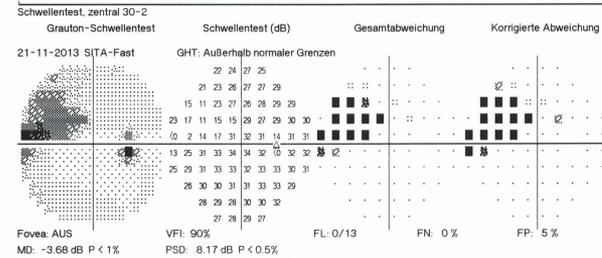
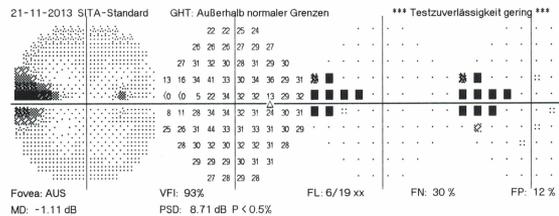
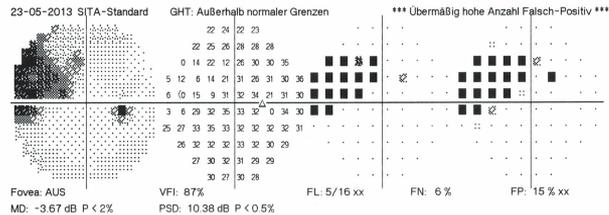
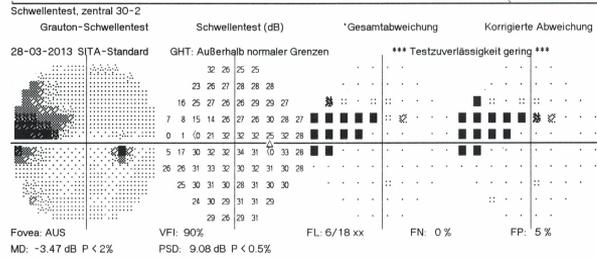
Phakoemulsifikation zur IOD Senkung



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IOD 11mmHg

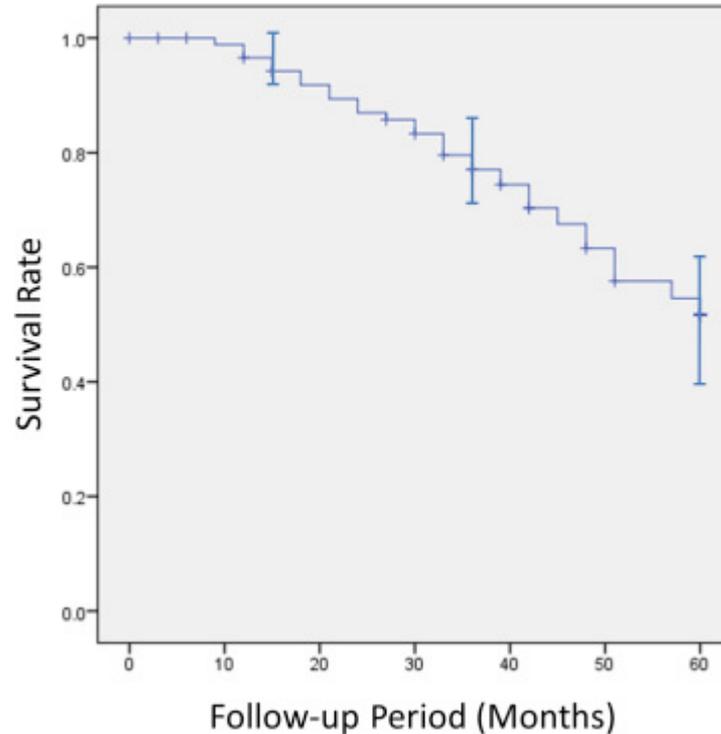


Sonderfall NDG

IOD 12.3 mmHg

66% Progression in 5a
(unbehandelt)

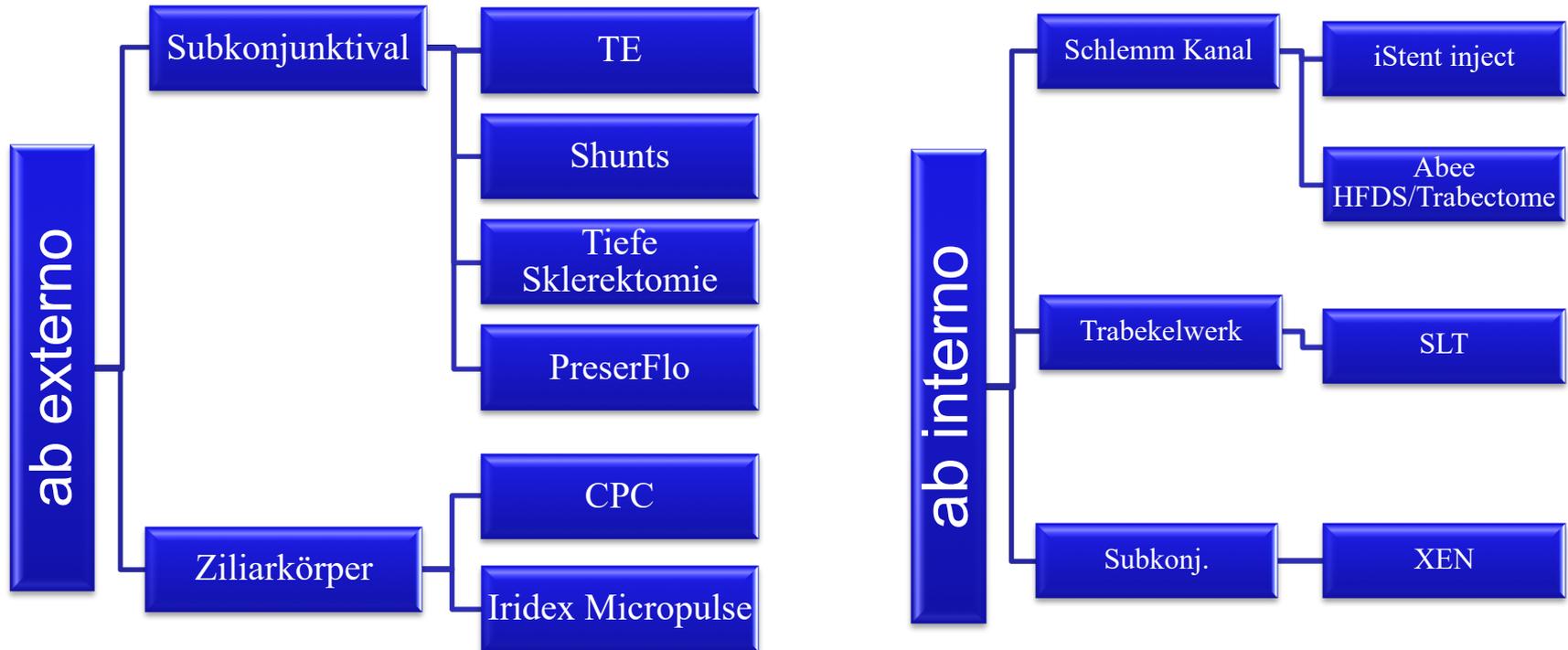
wie behandeln?



Fistulierende OP bei niedrigem IOD

Variable	Before surgery #1	After surgery #2	P-value #3
Follow-up duration (years)	4.3 ± 1.7	5.0 ± 1.3	-
IOP (mmHg)	13.9 ± 0.9	8.1 ± 2.9	< 0.001*
Rate of IOP reduction (%)	-	41.7 ± 20.5	-
Number of IOP-lowering eye drops (n)	3.0 ± 0.4	0.8 ± 1.5	< 0.0001*
Number of VF examinations (times)			
30–2 VF test (n = 13)	7.6 ± 3.5	6.9 ± 2.2	-
10–2 VF test (n = 6)	7.8 ± 1.7	6.7 ± 1.6	-
MD value (dB)			
30–2 VF test (n = 13)	-18.86 ± 4.16	-20.11 ± 4.25	0.2901
10–2 VF test (n = 6)	-28.81 ± 3.20	-28.43 ± 2.36	0.2242
MD slope (dB/year)			
30–2 VF test (n = 13)	-0.91 ± 0.57	-0.32 ± 0.57	0.0334*
10–2 VF test (n = 6)	-0.97 ± 0.70	-0.09 ± 0.37	0.0709
logMAR VA	0.23 ± 0.45	0.17 ± 0.27	0.4845
Decimal VA	0.78 ± 0.40	0.79 ± 0.40	0.8974

Operatives Angebot Glaukomambulanz KUK



Die schonendere Alternative



Spinat als Glaukomtherapeutikum?

Regelmäßige Aufnahme von Nitraten in Form von grünem Gemüse (>80mg/d – 240mg/d, 1.6 Mio Personenjahre Follow up, 100K Personen, 1483 Glaukome)

1. reduziert das POWG Risiko um 20-30%
2. reduziert das Risiko früher parazentraler Gesichtsfeld Defekte um 40-50%
3. reduziert das Risiko einer vaskulären Dysregulation



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Vielen Dank für Ihre Aufmerksamkeit!