AMD MANAGEMENT ... What changes with a new player



Roberto Gallego-Pinazo

Unit of Macula, Department of Ophthalmology University and Polytechnic Hospital La Fe, Valencia, Spain

Financial Disclosure

- **CONSULTANT** [Alcon, Bayer, Novartis]
- CLINICAL TRIALS/STUDIES [Alcon, Allergan,

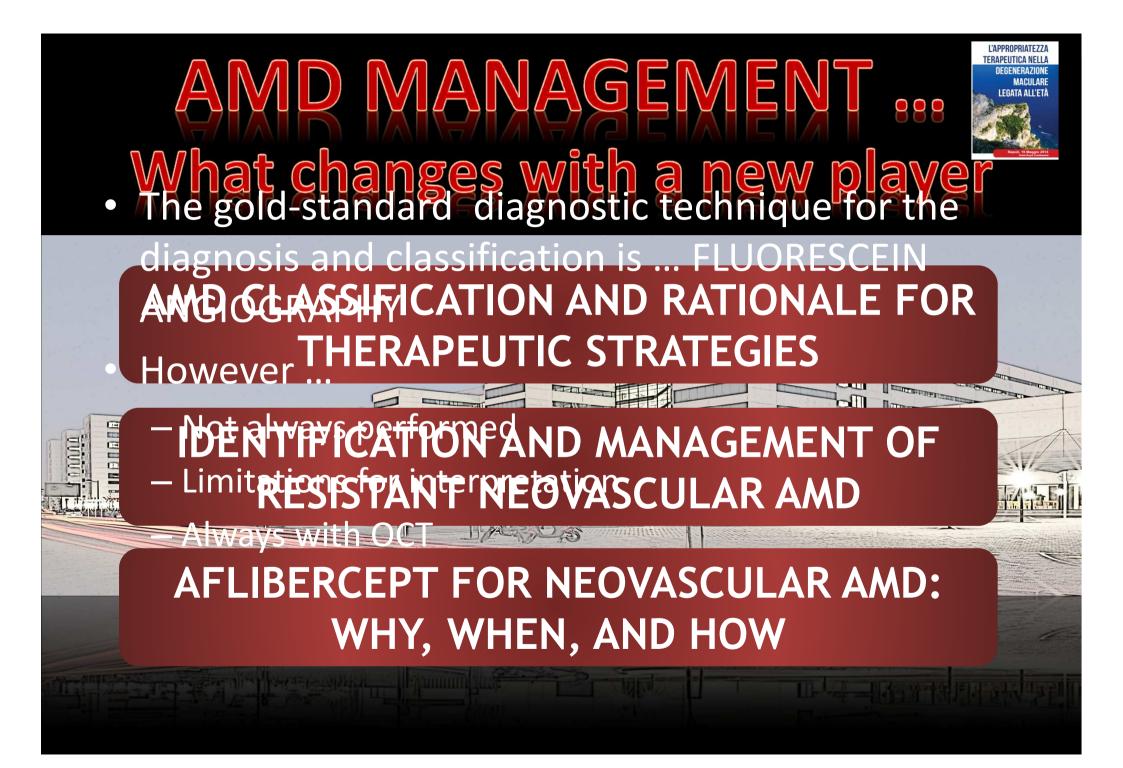
Angelini, Bayer, Sensimed, Thea]

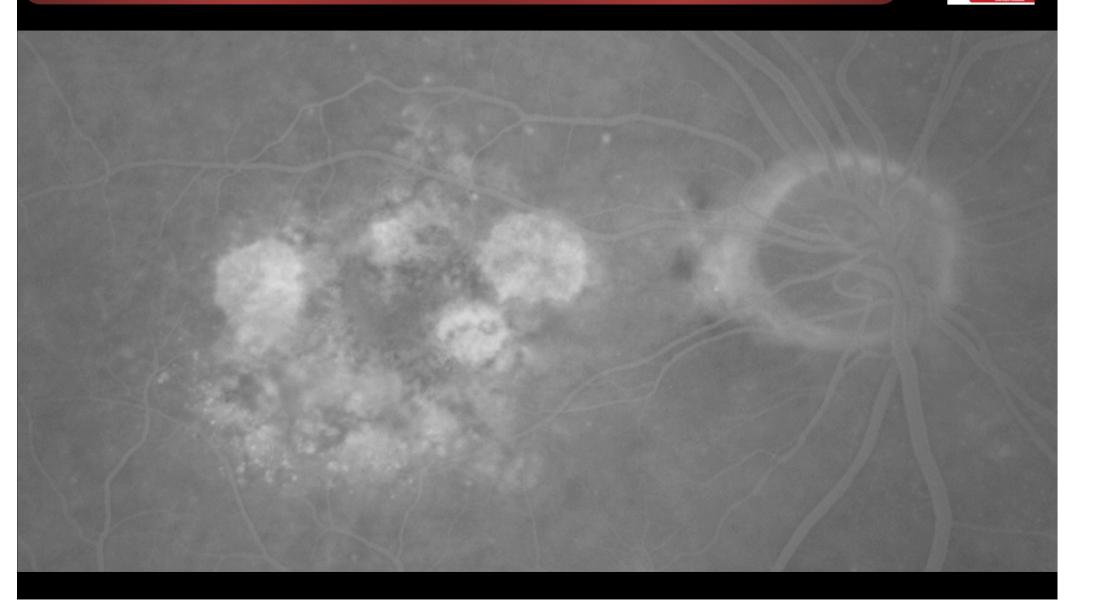
 GRANT SUPPORT [Abbvie, Alcon, Bausch&Lomb, Bayer, Carl Zeiss, Heidelberg, Novartis, Sensimed, Thea, Topcon]



IDENTIFICATION AND MANAGEMENT OF RESISTANT NEOVASCULAR AMD

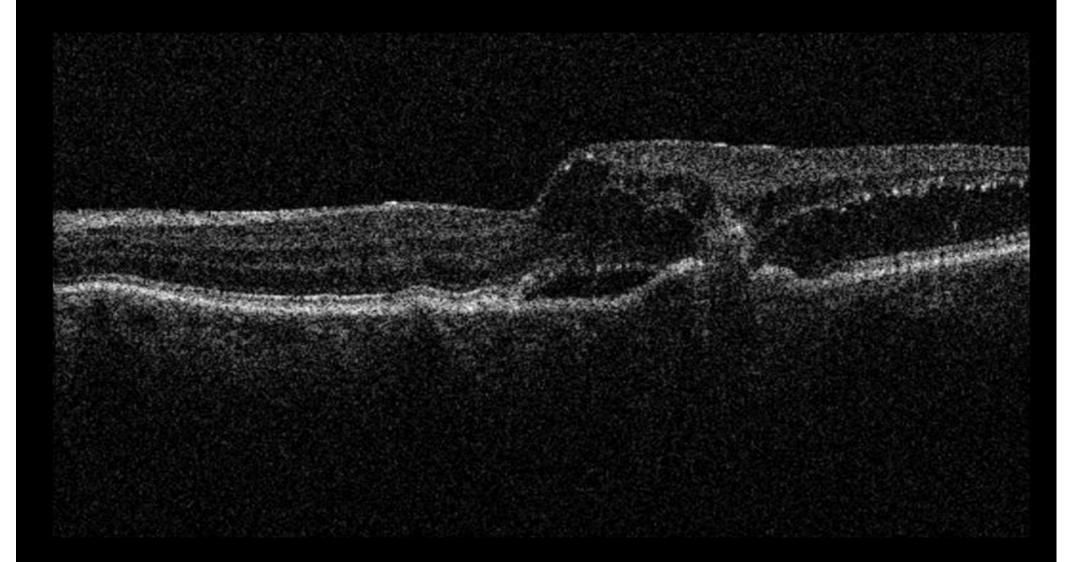
AFLIBERCEPT FOR NEOVASCULAR AMD: WHY, WHEN, AND HOW





L'APPROPRIATEZZ

TERAPEUTICA NELLA Degenerazione Maculare Legata all'età



FRAPEUTICA NELLA

MACULARE Egata All'Età



 TYPE 1 CNV
 TYPE 2 CNV
 TYPE 3 CNV

 UNDER THE RPE
 ABOVE THE RPE
 INTRARETINAL

UNDER THE RPEABOVE THE RPESUBRETINAL FLUIDINTRARETINAL FLUIDEZ & ELM INTACTLOSS OF EZ & ELMRPE INTACTRPE DISRUPTED

INTRARETINAL INTRARETINAL FLUID LOSS OF EZ & ELM RPE EROSION

Do we need a new classification for choroidal neovascularization in age-related macular degeneration?

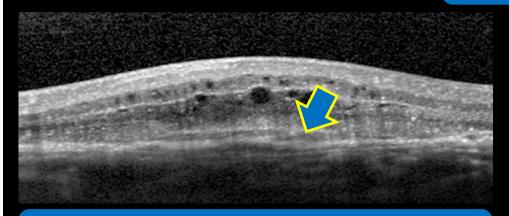
K. Bailey Freund KB, Sandrine A. Zweifel, Michael Engelbert





THE MACULA FOUNDATION EXPANDING THE FIELD OF VISION

CLASSIC NEOVASCULARIZATION



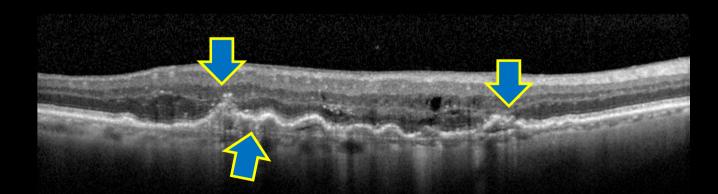
TYPE 2 NEOVASCULARIZATION

TYPE 1 NEOVASCULARIZATION

TERAPEUTICA NELL

MACULARE

OCCULT NEOVASCULARIZATION



TYPE 3 NEOVASCULARIZATION

TYPE 1 NEOVASCULARIZATION

TERAPEUTICA NELL

MACULARE



Lesion Type FA alone	Frequency: N=Number (%)	Lesion Type Anatomical <mark>(FA + OCT)</mark>	Frequency: N=Number (%)
Poorly defined (Occult)	132 (49.6%)	Type 1 (sub-RPE)	106 (39.9%)
Well-defined (Classic)	32 (12.0%)	Type 2 (sub-retinal)	24 (9.0%)
Retinal angiomatous proliferation (RAP)	76 (28.6%)	Type 3 (intraretinal)	91 (34.2%)
Mixed	26 (9.8%)	Mixed	45 (16.9%)

The Incidence of Neovascular Subtypes in Newly Diagnosed Neovascular Age-Related Macular Degeneration

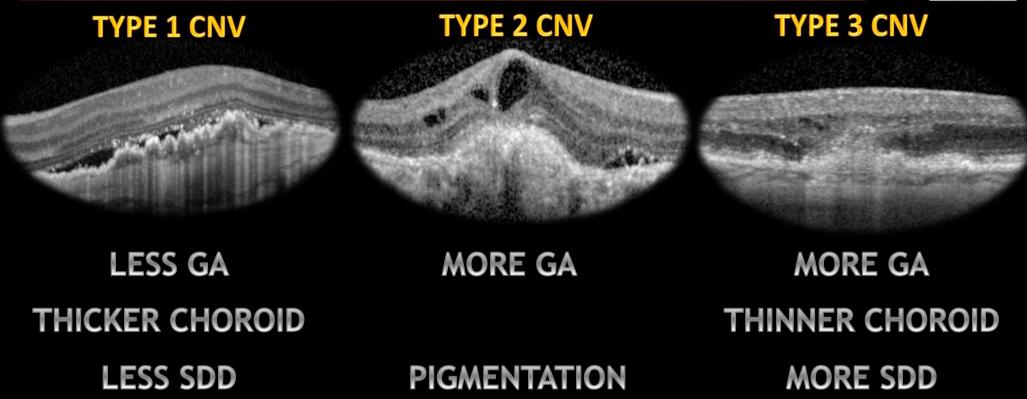
Jesse J. Jung, Christine Y. Chen, Sarah Mrejen, Roberto Gallego-Pinazo, Luna Xu, Marcela Marsiglia, Sucharita Boddu, K. Bailey Freund











Correlation Between Neovascular Lesion Type and Clinical Characteristics of Non-Neovascular Fellow Eyes in Patients With Unilateral Neovascular Age-Related Macular Degeneration Sucharita Boddu, Marcela Marsiglia, Christine Y. Chen, Jesse J. Jung, Sarah Mrejen, Roberto Gallego-Pinazo, K. Bailey Freund

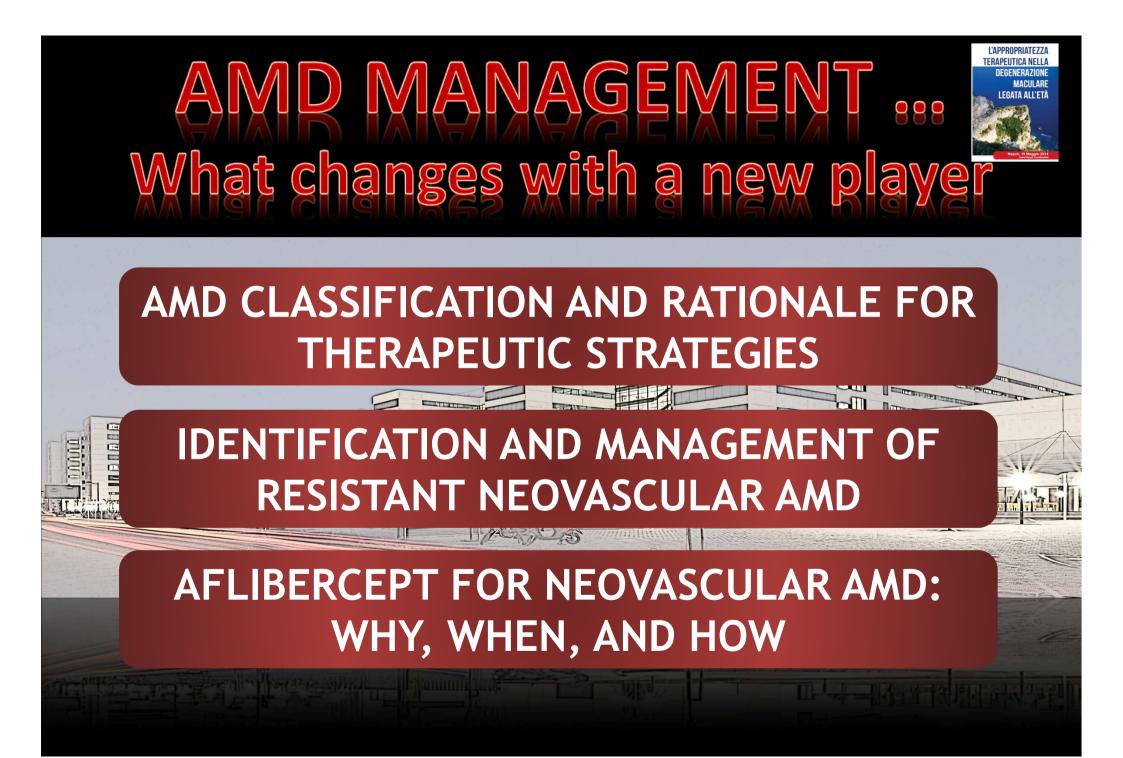




THE MACULA FOUNDATION EXPANDING THE FIELD OF VISION



		North 1 Margaret 201
TYPE 1 CNV	TYPE 2 CNV	TYPE 3 CNV
PRO RE	TREAT and	PRO RE
NATA	EXTEND	NATA
CASES	OF UNILATERAL INVOLV	EMENT
TREAT and	TREAT and	TREAT and
EXTEND	EXTEND	EXTEND
CASE	S OF BILATERAL INVOLVE	EMENT





WRONG NUMBER MISDIAGNOSIS

NO COVERAGE ANATOMIC DISTORTION

PHONE BUSY REAL NON-RESPONDER

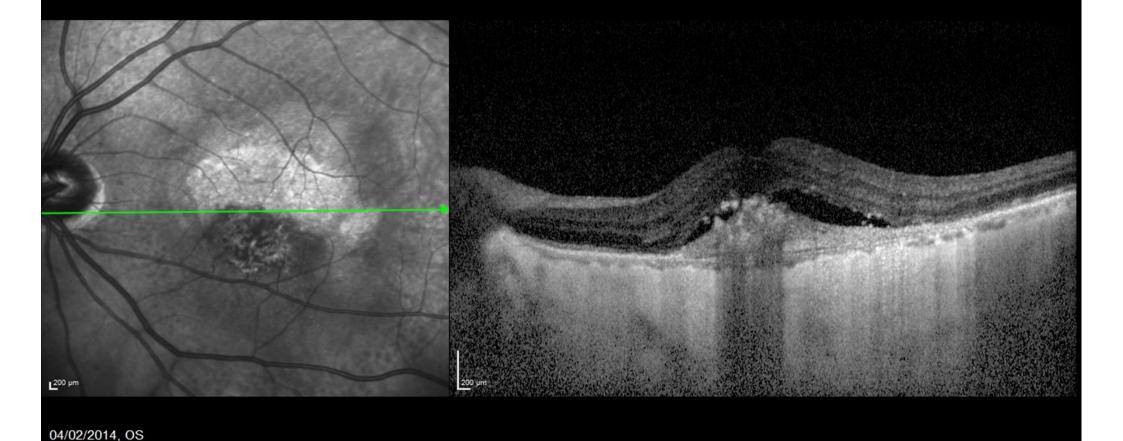
NO COVERAGE ANATOMIC DISTORTION



IR&OCT 30° EDI 5566.12 [HS] ART(16) Q: 18



NO COVERAGE ANATOMIC DISTORTION



HEIDELBEIG

IR&OCT 30° EDI 9754.18 [HS] ART(16) Q: 19

STRATEGIES FOR THE MANAGEMENT OF		
	RESISTANT NEOVASCULAR AMD	
1	CONFIRM PRECISE DIAGNOSIS OF NEOVASCULAR AMD	
2	CONFIRM REAL PATTERN OF THERAPEUTIC RESPONSE	
3	CHANGE THERAPEUTIC STRATEGY PERFORMED	

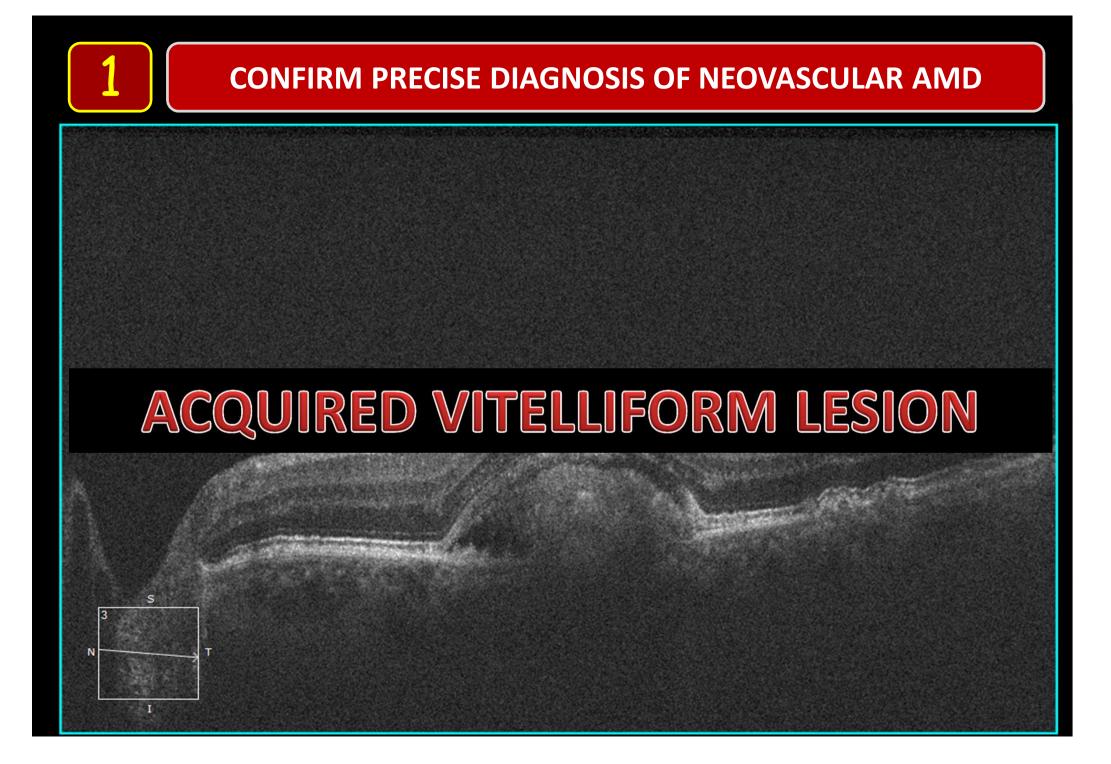
Roberto Gallego-Pinazo

Unit of Macula, Department of Ophthalmology University and Polytechnic Hospital La Fe, Valencia, Spain

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CONFIRM PRECISE DIAGNOSIS OF NEOVASCULAR AMD

PACHYCHOROID PIGMENT EPITHELIOPATHY

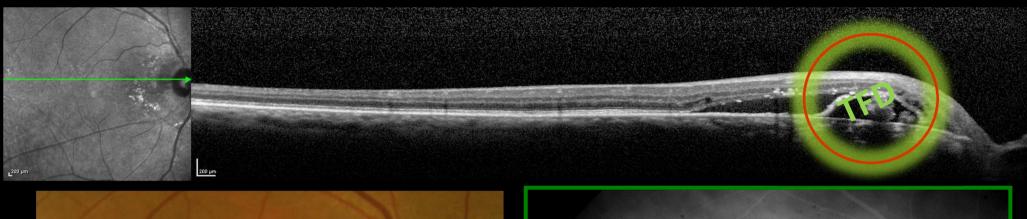
DAVID J. WARROW, MD,* QUAN V. HOANG, MD, PhD, †‡§ BAILEY K. FREUND, MD †‡§¶

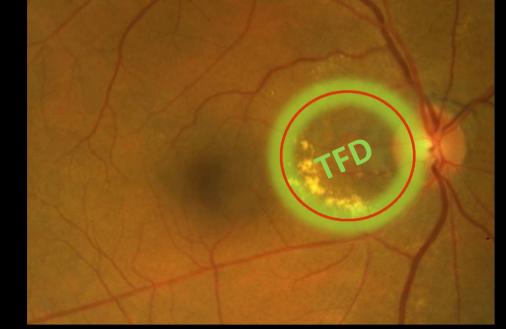
TYPE 1 (SUB-RETINAL PIGMENT EPITHELIAL) NEOVASCULARIZATION IN CENTRAL SEROUS CHORIORETINOPATHY MASQUERADING AS NEOVASCULAR AGE-RELATED MACULAR DEGENERATION

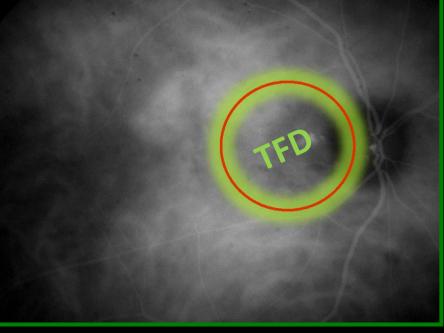
ADRIAN T. FUNG, MBBS, MMED,* LAWRENCE A. YANNUZZI, MD,*†‡ K. BAILEY FREUND, MD*†‡

PACHYCHOROID NEOVASCULOPATHY

CONFIRM PRECISE DIAGNOSIS OF NEOVASCULAR AMD





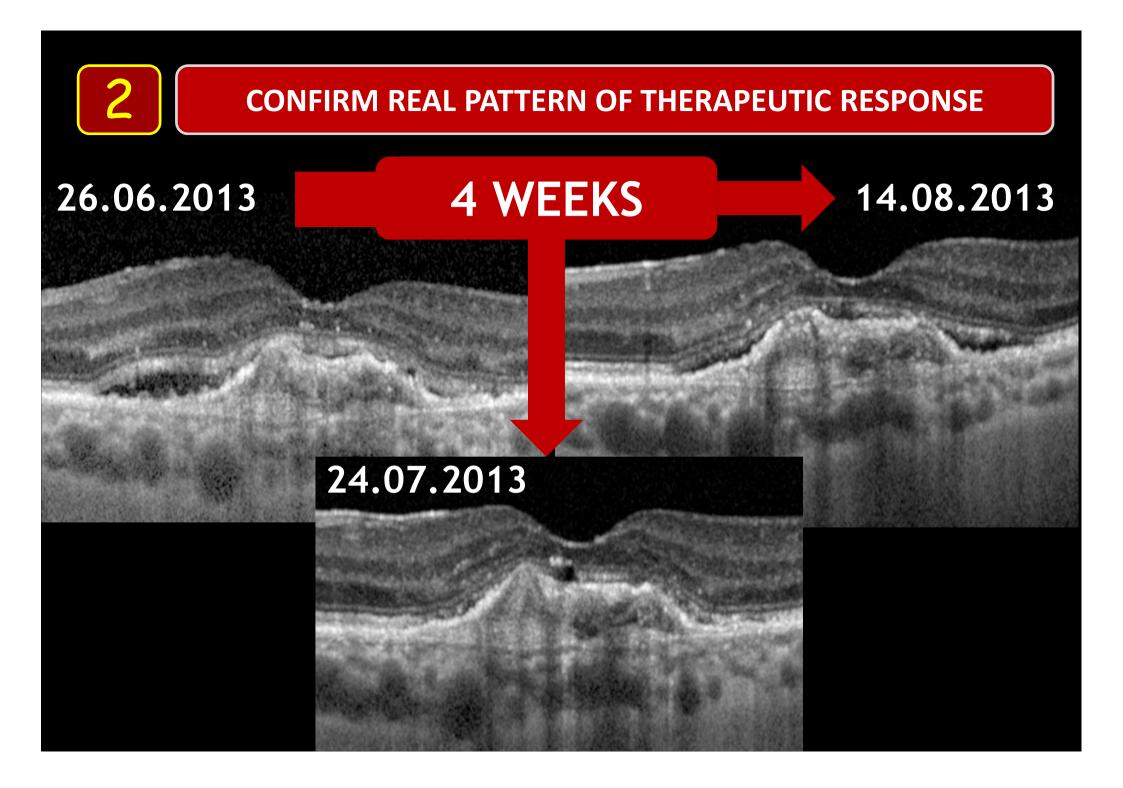


Dr LA Yannuzzi & KB Freund

STRATEGIES FOR THE MANAGEMENT OF		
	RESISTANT NEOVASCULAR AMD	
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Roberto Gallego-Pinazo

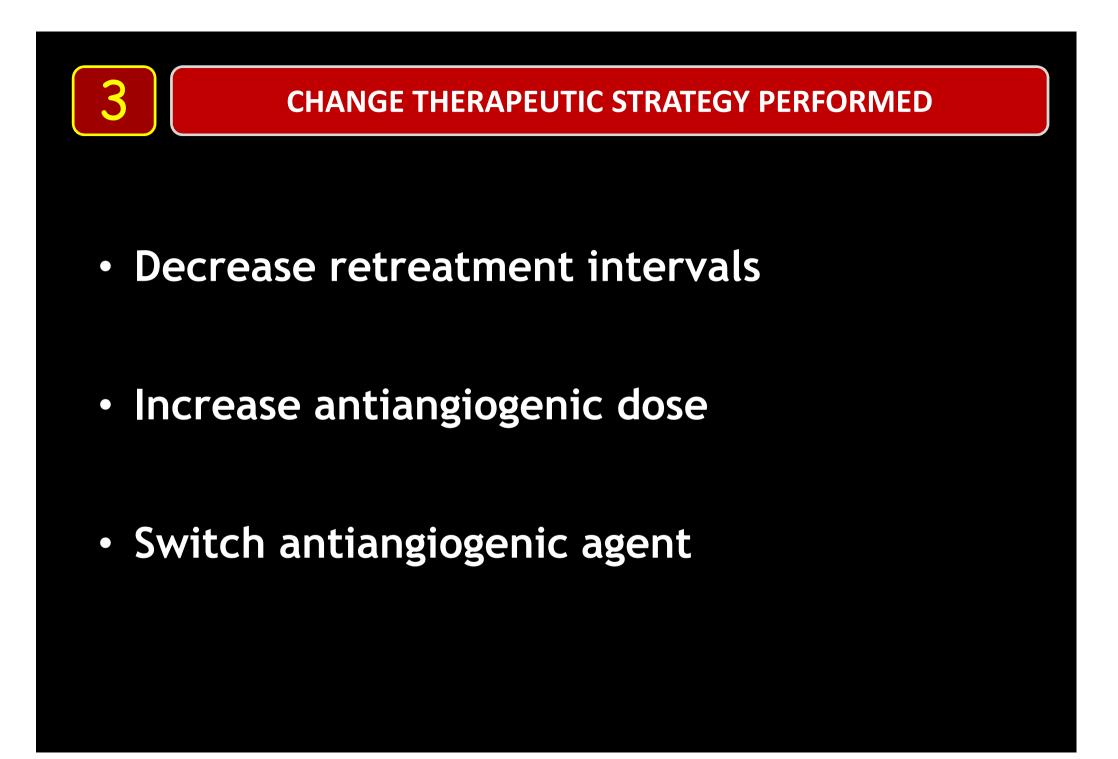
Unit of Macula, Department of Ophthalmology University and Polytechnic Hospital La Fe, Valencia, Spain



STRATEGIES FOR THE MANAGEMENT OF		
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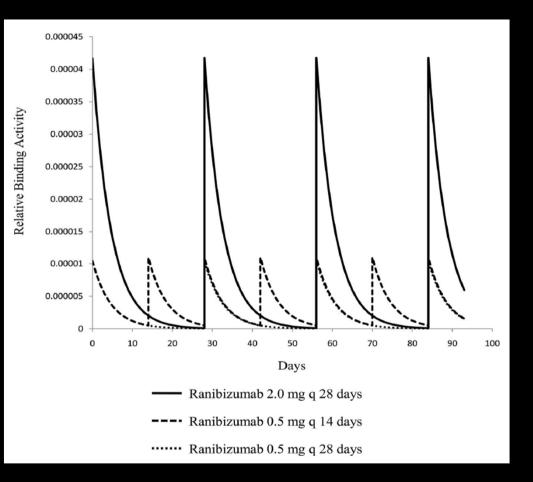
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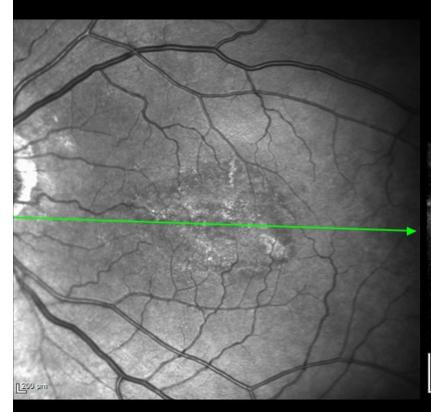
CHANGE THERAPEUTIC STRATEGY PERFORMED

PHARMACOKINETIC RATIONALE FOR DOSING EVERY 2 WEEKS VERSUS 4 WEEKS WITH INTRAVITREAL RANIBIZUMAB, BEVACIZUMAB, AND AFLIBERCEPT (VASCULAR ENDOTHELIAL GROWTH FACTOR TRAP-EYE)

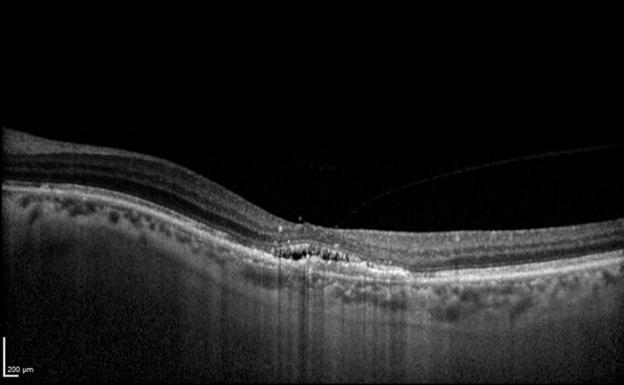
MICHAEL W. STEWART, MD,* PHILIP J. ROSENFELD, MD, PhD,† FERNANDO M. PENHA, MD, PhD,† FENGHUA WANG, MD,†‡ ZOHAR YEHOSHUA, MD, MHA,† ELENA BUENO-LOPEZ, MD, $\$ pedro f. Lopez, MD, $\$



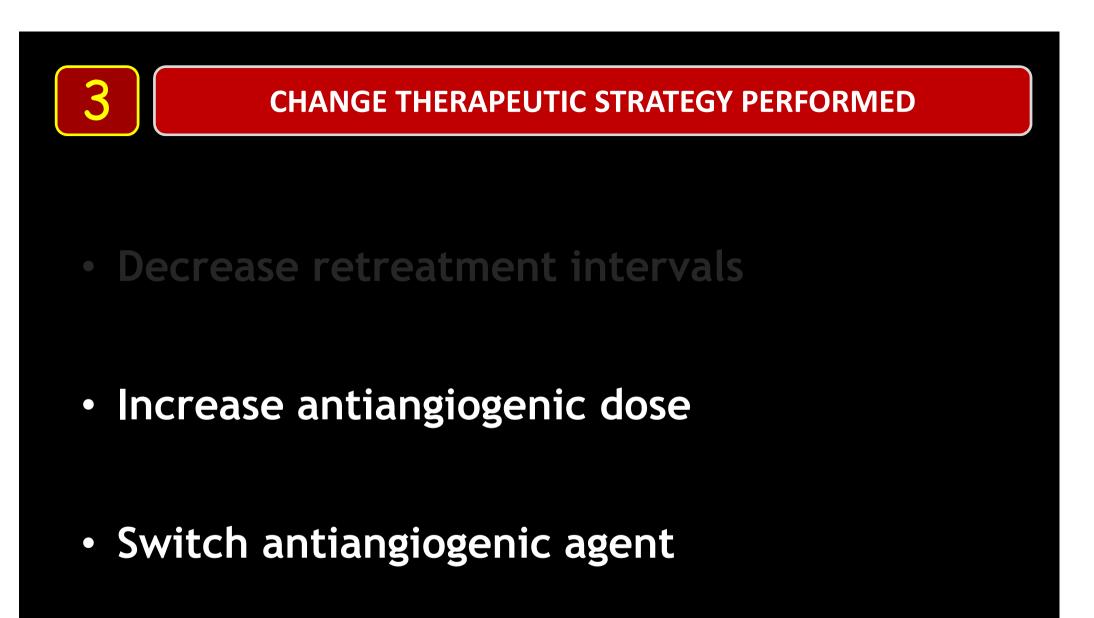




3



HEIDELBErg

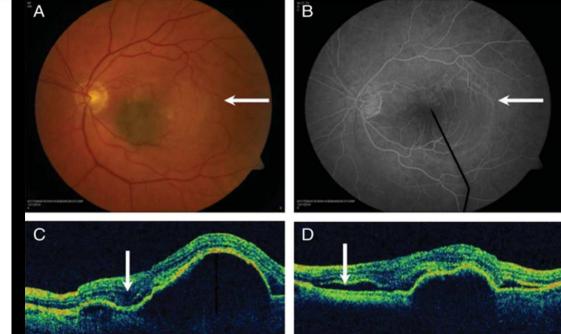


CHANGE THERAPEUTIC STRATEGY PERFORMED

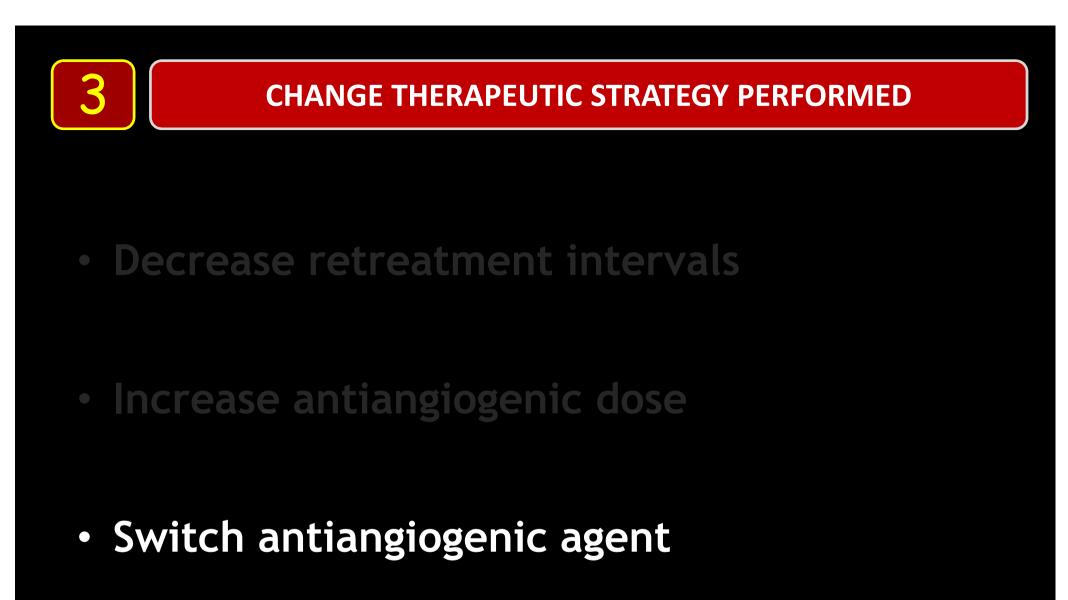
PROSPECTIVE EVALUATION OF THE INCIDENCE AND RISK FACTORS FOR THE DEVELOPMENT OF RPE TEARS AFTER HIGH- AND LOW-DOSE RANIBIZUMAB THERAPY

DAVID SARRAF, MD,*† CLEMENT CHAN, MD,‡§ EHSAN RAHIMY, MD,* PREMA ABRAHAM, MD

degeneration in patients with perSistent/recurrenT macular fluid < 30 days following treatment with intravitreal anti-VEGF therapy (the LAST Study)



2.0mg R/ SHOWS EFFI





(OBVIOUSLY) SWITHCING DRUGS MAY ACHIEVE POSITIVE OUTCOMES IN SOME RESISTANT NEOVASCULAR AMD PATIENTS

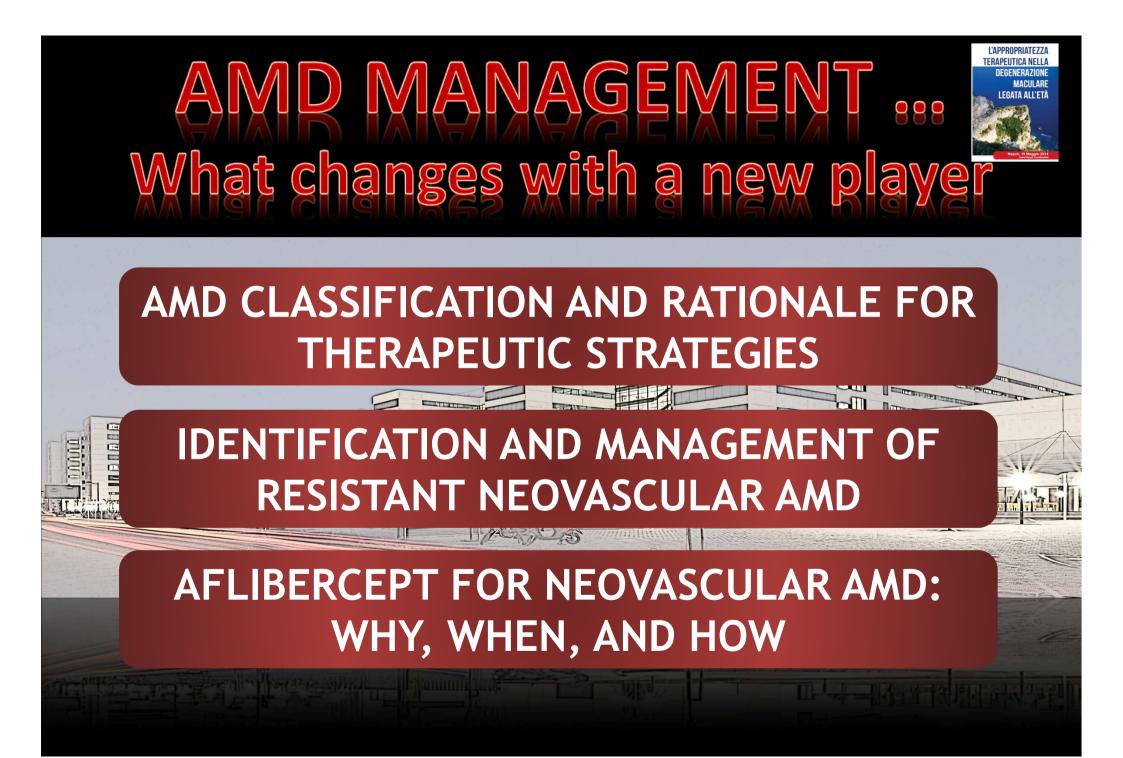


VERIFY LACK OF ANATOMIC RESPONSE TO THERAPY

PERFORM THE SWAP AFTER INJECTION #6



INITIATE NEW TREATMENT WITH 3 MONTHLY INJECTIONS



L'APPROPRIATEZZA TERAPEUTICA NELLA DEGENERAZIONE MACULARE LEGATA ALL'ETÀ

TREATMENT-NAÏVE CASES OF NEOVASCULAR AMD

RESISTANT CASES OF NEOVASCULAR AMD

• LESS NUMBER OF VISITS

- LESS NUMBER OF TREATMENTS
- MORE "DRY RETINA"



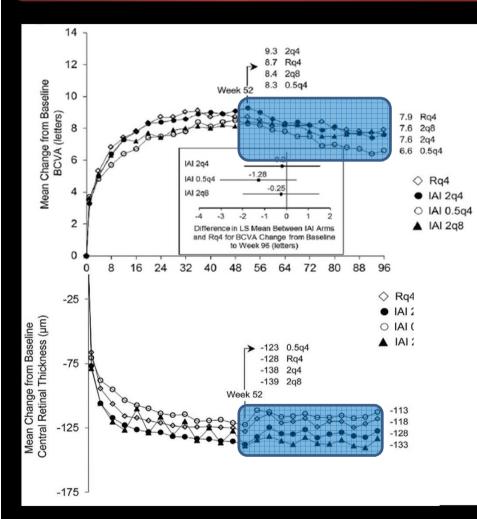
CONS

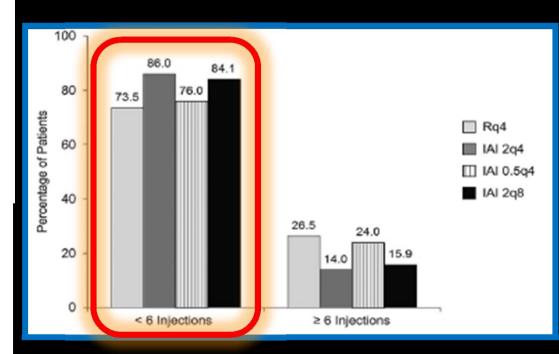
PROS

- MORE GEOGRAPHIC ATROPHY (?)
- SAW-TOOTH PATTERN OF RETINAL THICKNESS (?)

TERAPEUTICA NELL

• SYSTEMIC SAFETY ISSUES (?)

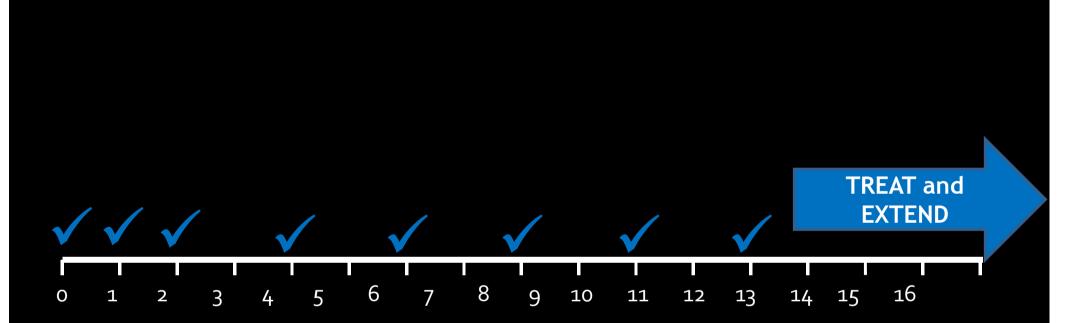




L'APPROPRIATEZZA TERAPEUTICA NELLA

DEGENERAZIONE Maculare Legata All'età

>40% OF CASES ONLY NEEDED THE FIXED TRI-MONTHLY INJECTIONS



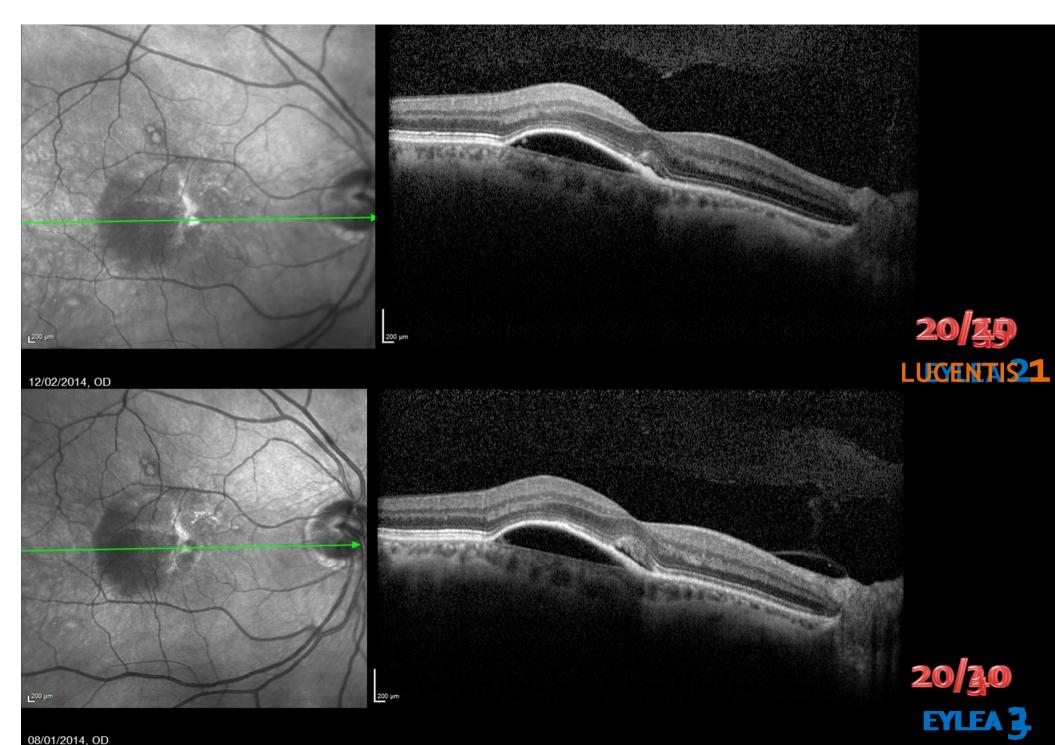
L'APPROPRIATEZZA TERAPEUTICA NELLA

> DEGENERAZIONE Maculare Legata All'età

L'APPROPRIATE77 **TERAPEUTICA NELLA AFLIBERCEPT FOR NEOVASCULAR AMD: DEGENERAZIONE** MACULARE EGATA ALL'ETÀ WHY, WHEN, AND HOW **FLUID RESOLUTION** [~80%] **TREAT** and **EXTEND** 6 8 14 15 16 9 12 13 5 7 10 11 0 1 2 3 4 **TREAT** and MONTHLY TREATMENT

PERSISTENT FLUID [~20%] EXTEND

- IDEAL CANDIDATES FOR FIRST LINE THERAPY WITH EYLEA
 - Type 1 neovascularization
 - Large serous/vascularized PED
 - Thick choroidal tissue
 - Limitations for multiple visits



08/01/2014, OD



Patient disposition (all randomized subjects):

Study VIEW	RQ4	2Q4	0.5Q4	2Q8	VEGF Trap-Eye Combined	Total
1					Combined	
Screened*						2063
Randomized	306 (100)	304 (100)	304 (100)	303 (100)	911 (100)	1217 (100)
Treated ² (safety set)	304 (99.3)	304 (100)	304 (100)	303 (100)	911 (100)	1215 (99.8)
FAS1	304 (99.3)	304 (100)	301 (99.0)	301 (99.3)	906	1210
PPS	269 (87.9)	285 (93.8)	270 (88.8)	265 (87.5)	820	1089
Completed Year 1	284 (92.8)	293 (96.4)	277 (91.1)	276 (91.1)	846 (92.9)	1130 (92.9)
Premature discontinua	tion within first y	ear				
Total	22 (7.2)	11 (3.6)	27 (8.9)	27 (8.9)	65 (7.1)	87 (7.1)
Subject withdrawal	10 (3.3)	5 (1.6)	7 (2.3)	8 (2.6)	20 (2.2)	30 (2.5)
Adverse event	4 (1.3)	3 (1.0)	5 (1.6)	4 (1.3)	12 (1.3)	16 (1.3)
Death*	3 (1.0)	1 (0.3)	2 (0.7)	7 (2.3)	10 (1.1)	13 (1.1)
Lost to follow-up	1 (0.3)	2 (0.7)	4 (1.3)	4 (1.3)	10 (1.1)	11 (0.9)
Protocol deviation*	3 (1.0)	0	3 (1.0)	1 (0.3)	4 (0.4)	7 (0.6)
Treatment failure	0	0	2 (0.7)	2 (0.7)	4 (0.4)	4 (0.3)
Other	1 (0.3)	0	4 (1.3)	1 (0.3)	5 (0.5)	6 (0.5)
Completed study	279 91.2)	288 (94.7)	274 (90.1)	273 (90.1)	911 (100)	1114 (91.51)
medication Prematurely discontinued study medication	27 (8.8)	16 (5.3)	30 (9.9)	30 (9.9)	76 (8.3)	103 (8.5)
Withdrawal by Subject	12 (3.9)	8 (2.6)	9 (3.0)	9 (3.0)	-	38 (3.1)
Adverse event	4 (1.3)	3 (1.0)	5 (1.6)	6 (2.0)	14 (1.5)	18 (1.5)
Lost to follow-up	2 (0.7)	4 (1.3)	4 (1.3)	5 (1.7)	13 (1.4)	15 (1.2)
Death	3 (1.0)	1 (0.3)	2 (0.7)	6 (2.0)	9 (1.0)	12 (1.0)
Protocol deviation*	3 (1.0)	0 (0.0)	3 (1.0)	1 (0.3)	4 (0.4)	7 (0.6)
Treatment failure	1 (0.3)	0 (0.0)	2 (0.7)	2 (0.7)	4 (0.4)	5 (0.4)
Other	2 (0.7)	0 (0.0)	5 (1.6)	1 (0.3)	6 (0.7)	8 (0.7)



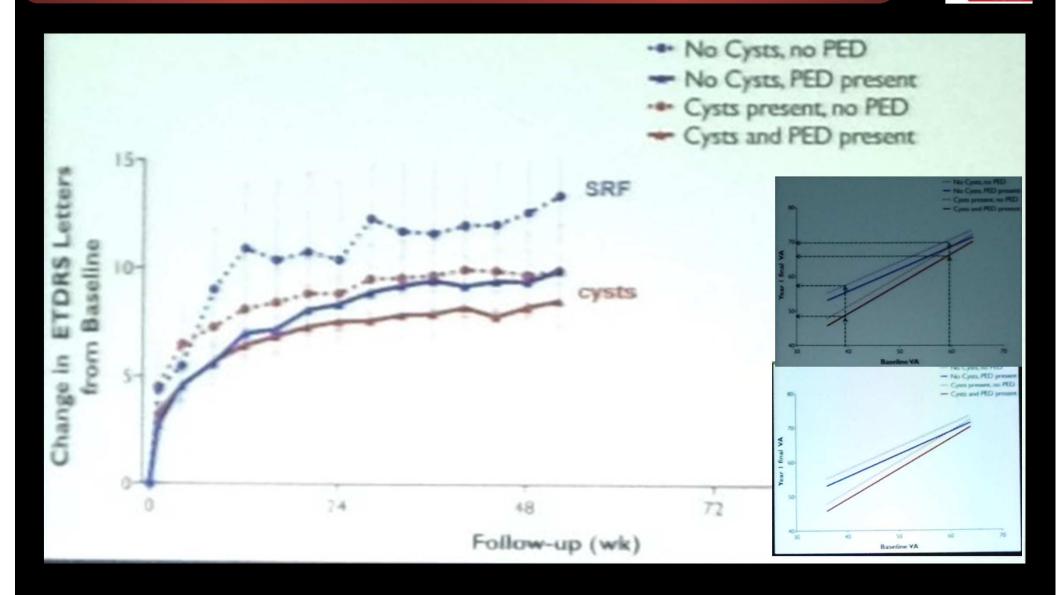
Table 3: Number of subjects with non-ocular treatment-emergent adverse event in the elderly population grouped by age (Year 1 data)

Age Group	< 65 y	ears	≥ 65 - < 7	75 years	≥75-<1	85 years	≥ 85 y	ears
	Ranibizumab N=71 (100%)	VEGF Trap- Eye (Total)	Ranibizumab N=163 (100%)	VEGF Trap- Eye (Total)	Ranibizumab (N=274 (100%)	VEGF Trap- Eye (Total)	Ranibizumab N=274 (100%)	VEGF Trap- Eye (Total)
		N=202 (100%)		N=478 (100%)		N=861 (100%)		N=861 (100%)
Any non-ocular TEAEs	43 (60.6%)	144 (71.3%)	105 (64.4%)	335 (70.1%)	200 (73.0%)	623 (72.4%)	67 (77.0%)	222 (78.4%)
Fatal (ie, deaths)	0	0	1 (0.6%)	1 (0.2%)	3 (1.1%)	5 (0.6%)	3 (3.4%)	7 (2.5%)
Serious	1 (1.4%)	15 (7.4%)	19 (11.7%)	48 (10.0%)	44 (16.1%)	117 (13.6%)	19 (21.8%)	72 (25.4%)
Withdrawals or discontinuations	0	4 (2.0%)	1 (0.6%)	6 (1.3%)	3 (1.1%)	14 (1.6%)	1 (1.1%)	9 (3.2%)
Any non-ocular TEAEs by AE g	rouping							
CNS (confusion/extrapyramidal)	1 (1.4%)	5 (2.5%)	6 (3.7%)	3 (0.6%)	5 (1.8%)	14 (1.6%)	1 (1.1%)	10 (3.5%)
AE related to falling	0	2 (1.0%)	5 (3.1%)	4 (0.8%)	16 (5.8%)	24 (2.8%)	5 (5.7%)	25 (8.8%)
Cardiovascular events	0	6 (3.0%)	1 (0.6%)	12 (2.5%)	11 (4:0%)	26 (3.0%)	8 (9.2%)	8 (2.8%)
Cerebrovascular events	0	0	0	5 (1 0%)	1 (0.4%)	10 (1.2%)	1(1.1%)	20 (7.1%)
Infections and Infestations	23 (32.4%)	49 (24.3%)	54 (33.1%)	140 (29.3%)	96 (35.0%)	239 (27.8%)	27 (31.0%)	86 (30.4%)



Age Group	< 65)	years	≥ 65 - <	75 years	≥75-<	85 years	≥ 85	years
	Ranibizumab N= 71 (100%)	The Change	Ranibizumab N= 163(100%)	Euro (Tatal)	(N= 274 (100%)	(Tatal)	Ranibizumab N= 87 (100%)	VEGF Trap-Eye (Total) N= 283 (100%)
Any non-ocular TEAEs	51 (71.8%)	166 (82.2%)	129 (79.1%)	393 (82.2%)	235 (85.8%)	732 (85.0%)	79 (90.8%)	251 (88.7%)
Fatal ie, deaths	0	1 (0.5%)	2 (1.2%)	8 (1.7%)	6 (2.2%)	20 (2.3%)	7 (8.0%)	17 (6.0%)
Serious	5 (7.0%)	21 (10.4%)	29 (17.8%)	83 (17.4%)	80 (29.2%)	221 (25.7%)	32 (36.8%)	112 (39.6%)
Withdrawals or discontinuations	0	5 (2.5%)	2 (1.2%)	11 (2.3%)	7 (2.6%)	32 (3.7%)	4 (4.6%)	25 (8.8%)
		Any no	n-ocular TE/	AEs by AE gr	ouping			
CNS (confusion/extrapyramidal)	2 (2.8%)	8 (4.0%)	9 (5.5%)	8 (1.7%)	9 (3.3%)	26 (3.0%)	2 (2.3%)	15 (5.3%)
AE related to falling	0	6 (3.0%)	6 (3.7%)	8 (1.7%)	24 (8.8%)	49 (5.7%)	9 (10.3%)	47 (16.6%)
Cardiovascular events	3 (4.2%)	6 (3.0%)	8 (4.9%)	21 (4.4%)	18 (0.0%)	41 (4.8%)	9 (10.3%)	21 (7.4%)
Cerebrovascular events	0	2 (1.0%)	0	6 (1.3%)	9 (3.3%)	20 (2.3%)	3 (3.4%)	27 (9,5%)
Infections and Infestations	28 (39.4%)	63 (31.2%)	70 (42.9%)	182 (38.1%)	134 (48.9%)	360 (41.8%)	40 (46.0%)	123 (43.5%)
APTC events	1 (14%)	2 (1.0%)	2 (1.2%)	11 (2,3%)	ft(4(0%))	24 (2.8%)	5 (5.7%)	261(21166)

Table 3: Number of subjects wi								
Age Group	< 65	years	≥ 65 - <	75 years	≥75-<	85 years	≥ 85 y	ears
	Ranibizumati N=71 (100%)	Ton (Total)	Ranibizumab N=163 (100%)	E (E ()	Ranibizumab (N=274 (100%)	VEGF Trap- Eye (Total) N=861 (100%)	Ranibizumab N=274 (100%)	VEGF Trap- Eye (Total) N=861
		(100%)		(100%)		M=861 (100%)		(100%)
Any non-ocular TEAEs	43 (60.6%)	144 (71.3%)	105 (64.4%)	335 (70.1%)	200 (73:0%)	623 (72.4%)	67 (77.0%)	222 (78.4%)
Fatal (ie, deaths)	0	0	1 (0.6%)	1 (0.2%)	3 (1.1%)	5 (0.6%)	3 (3.4%)	7 (2.5%)
Serious	1 (1.4%)	15 (7.4%)	19 (11.7%)	48 (10.0%)	44 (16.1%)	117 (13.6%)	19 (21.8%)	72 (25.4%)
Withdrawals or discontinuations	-	4 (2.0%)	1 (0.6%)	6 (1.3%)	3 (1.1%)	14 (1.6%)	1 (1.1%)	9 (3.2%)
Any non-ocular TEAEs by AE	Juping							
CNS (confusion/extrapyramid	1 (1.4%)	5 (2.5%)	6 (3.7%)	3 (0.6%)	5 (1 9%)	14 (1.6%)	1 (1.1%)	10 (3.5%)
AE related to failing	0	2 (1 /6)	3.19	4 (%)	16 (%)	24 2.8%)	5 (5.7%)	25 (8.8%)
Cardiovascular events	0 🖊	F (1 %)	1 .6	12 (. %)	11 (4 %)	2 20%)	8 (9.2%)	8 (2.8%)
Cerebrovascular events	0		0	5(1%)	.4%)	10 2%)	1 (1.1%)	20 (7.1%)
	1011					Concession in the local division of the loca		
able 7: Number of subjects wit	6		o4 (33.1%) mergent adve		the elde ty po		27 (31.0%) uped by age (86 (30.4%) 2 Year data)
Table 7: Number of subjects wit	h non-ocular navclient&aq=&oq=	EPAR+EYLEA+LUCEN	mergent adve	eriz=1T4ADRA_esE	the elde ty po		uped by age (2 Year data) 0.4kgA6pANS
Table 7: Number of subjects wit	h non-ocular navclient&aq=&oq= N= 71 (100%)	EPAR+EYLEA+LUCEN	mergent adve	eriz=1T4ADRA_esE	the elde ly po	pulation gro	uped by age (2 Year data) 0.4kgA6pANS
Table 7: Number of subjects wit	h non-ocular navclient&aq=&oq= N= 71 (100%)	EPAR+EYLEA+LUCEN	mergent adve ITIS&hl=es&ie=UTF-8 V= 163(100%)	&riz=1T4ADRA_esE	the elde ty po	Pulation gro	uped by age (2 Year data) 0.4kgA6pANS
able 7: Number of subjects wit https://www.google.es/search?sourceid=	h non-ocular navclient&aq=&oq= N= 71 (100%)	EPAR+EYLEA+LUCEN	mergent adve ITIS&hl=es&ie=UTF-8 V= 163(100%)	&riz=1T4ADRA_esE	the eldr vy po S482ES482&q=EPAR+F	VLEA+LUCENTIS&gs_ (100an) N= 861 (100%)	uped by age () =hp0.0.1.538674 N= 87 (100%)	2 Year data)
Table 7: Number of subjects wit https://www.google.es/search?sourceid= Any non-ocular TEAEs	h non-ocular navclient&aq=&oq= N= 71 (100%) 51 (71.8%)	treatment-e EPAR+EYLEA+LUCEN Lye (1003) N=202(100%) 166 (82.2%) 1 (0.5%)	mergent adve ITIS&hl=es&ie=UTF-8 V= 163(100%) N 129 (79,1%) 3 2 (1.2%)	&riz=1T4ADRA_ese = 478 (100%) 93 (82.2%)	the elde ty po 5482ES482&q=EPAR+L (N= 274 (100%) 235 (85.8%)	Pulation grou VLEA+LUCENTIS&gs_ (100a) N= 861(100%) 732 (85.0%)	uped by age (I=hp0.0.1.538674 N= 87 (100%) 79 (90.8%)	2 Year data) 0.4kgA6pANS (100a) N= 283 (1004 251 (88.7%
Table 7: Number of subjects wit https://www.google.es/search?sourceid= Any non-ocular TEAEs Fatal ie, deaths	h non-ocular navclient&aq=&oq= N= 71 (100%) 51 (71.8%) 0	treatment-e EPAR+EYLEA+LUCEN Lye (1003) N=202(100%) 166 (82.2%) 1 (0.5%)	mergent adve ITIS&hl=es&ie=UTF-8 N= 163(100%) N 129 (79,1%) 3 2 (1.2%) 29 (17,8%) 4	eriz=1T4ADRA_esE = 478 (100%) 193 (82.2%) 8 (1.7%)	the elds .y po 5482E5482&q=EPAR+E (N= 274 (100%) 235 (85.8%) 6 (2.2%)	Pulation grou VLEA+LUCENTIS&gs_ (10(a)) N= 861(100%) 732(85.0%) 20(2.3%)	uped by age () =hp 0.0.1.538674 N= 87 (100%) 79 (90.8%) 7 (8.0%)	2 Year data) 0.4kgA6pANS (10cal) N= 283 (1009 251 (88.7% 17 (6.0%)
able 7: Number of subjects wit https://www.google.es/search?sourceid= Any non-ocular TEAEs Fatal ie, deaths Serious	h non-ocular navclient&aq=&oq= N= 71 (100%) 51 (71.8%) 0 5 (7.0%)	treatment-e EPAR+EYLEA+LUCEN Lye (100%) N=202(100%) 166 (82,2%) 1 (0.5%) 21 (10.4%) 5 (2.5%)	mergent adve ITIS&hl=es&ie=UTF-8 N= 163(100%) N 129 (79,1%) 3 2 (1.2%) 29 (17,8%) 4	eriz=114ADRA_esE eye (1 00a) = 478 (100%) 93 (82.2%) 8 (1.7%) 83 (17.4%) 11 (2.3%)	the elde .y po 5482E5482&q=EPAR+D (N= 274 (100%) 235 (85.8%) 6 (2.2%) 80 (29.2%) 7 (2.6%)	Pulation grou VLEA+LUCENTIS&gs_ (100a) N= 861(100%) 732 (85.0%) 20 (2.3%) 221 (25.7%)	uped by age (1=hp0.0.1.538674. N= 87 (100%) 79 (90.8%) 7 (8.0%) 32 (35.8%)	2 Year data) 0.4kgA6pANS (10cal) N= 283 (1009 251 (88.7% 17 (6.0%) 112 (39.6%
able 7: Number of subjects wit https://www.google.es/search?sourceid= Any non-ocular TEAEs Fatal ie, deaths Serious Withdrawals or discontinuations	h non-ocular navclient&aq=&oq= N= 71 (100%) 51 (71.8%) 0 5 (7.0%) 0	treatment-e EPAR+EYLEA+LUCEN Lye (100%) N=202(100%) 166 (82,2%) 1 (0.5%) 21 (10.4%) 5 (2.5%)	mergent adve ITIS&hl=es&ie=UTF-8 N= 163(100%) N 129 (79,1%) 2 (1.2%) 29 (17.8%) 2 (1.2%)	eriz=114ADRA_esE eye (1 00a) = 478 (100%) 93 (82.2%) 8 (1.7%) 83 (17.4%) 11 (2.3%)	the elde .y po 5482E5482&q=EPAR+D (N= 274 (100%) 235 (85.8%) 6 (2.2%) 80 (29.2%) 7 (2.6%)	Pulation grou VLEA+LUCENTIS&gs_ (100a) N= 861(100%) 732 (85.0%) 20 (2.3%) 221 (25.7%)	uped by age (1=hp0.0.1.538674. N= 87 (100%) 79 (90.8%) 7 (8.0%) 32 (35.8%)	2 Year data) 0.4kgA6pANS (10cal) N= 283 (1009 251 (88.7% 17 (6.0%) 112 (39.6%
able 7: Number of subjects wit https://www.google.es/search?sourceid= Any non-ocular TEAEs Fatal ie, deaths Serious	h non-ocular navclient&aq=&oq= N= 71 (100%) 51 (71.8%) 0 5 (7.0%) 0	EPAR+EYLEA+LUCEN Lyc (100%) 166 (82.2%) 1 (0.5%) 21 (10.4%) 5 (2.5%) Any nor	mergent adve ITIS&hI=es&ie=UTF-8 N= 163(100%) N 129 (79,1%) 2 (1.2%) 29 (17.8%) 2 (1.2%) 1-ocular TEAE	erse event &riz=114ADRA_ese = 478 (100%) 93 (82.2%) 8 (1.7%) 83 (17.4%) 11 (2.3%) Es by AE gro	the elde (y po 5482ES482&q=EPAR+E (N= 274 (100%) 235 (85.8%) 6 (2.2%) 80 (29.2%) 7 (2.6%) ouping	Pulation grou VLEA+LUCENTIS&gs_ (10(a)) N= 861(100%) 732 (85.0%) 20 (2.3%) 221 (25.7%) 32 (3.7%)	uped by age (=hp0.1.538674 N= 87 (100%) 79 (90.8%) 7 (8.0%) 32 (35.8%) 4 (4.6%)	2 Year data) 0.4kgA6pANS (10cai) N= 283 (1009 251 (88.7% 17 (6.0%) 112 (39.6% 25 (8.8%) 15 (5.3%)
Table 7: Number of subjects wit https://www.google.es/search?sourceid= Any non-ocular TEAEs Fatal ie, deaths Serious Withdrawals or discontinuations CNS (confusion/extrapyramidal) AE related to falling	h non-ocular navclient&aq=&oq= N= 71 (100%) 51 (71.8%) 0 5 (7.0%) 0	treatment-e EPAR+EYLEA+LUCEN Cyc (100%) 106 (82.2%) 1 (0.5%) 21 (10.4%) 5 (2.5%) Any nor 8 (4.0%)	mergent adve ITIS&hl=es&ie=UTF-8 N= 163(100%) N 129 (79,1%) 2 (1.2%) 29 (17.8%) 2 (1.2%) 2 (1.2%) 1-0cular TEAE 9 (5.5%) 6 (3.7%)	erse event &riz=114ADRA_ese = 478 (100%) 93 (82,2%) 8 (1.7%) 83 (17,4%) 11 (2.3%) Es by AE gro 8 (1.7%)	the elde .y po 5482E5482&q=EPAR+0 (N= 274 (100%) 235 (85.8%) 6 (2.2%) 80 (29.2%) 7 (2.6%) 50 uping 9 (3.3%)	Pulation grou VLEA+LUCENTIS&gs (100a) N= 861(100%) 732 (85.0%) 20 (2.3%) 20 (2.3%) 221 (25.7%) 32 (3.7%) 26 (3.0%)	uped by age (=hp0.1.538674 N= 87 (100%) 79 (90.8%) 7 (8.0%) 32 (35.8%) 4 (4.6%) 2 (2.3%)	2 Year data) 0.4kgA6pANS (10cai) N= 283 (1009 251 (88.7% 17 (6.0%) 112 (39.6% 25 (8.8%) 15 (5.3%)
able 7: Number of subjects wit https://www.google.es/search?sourceid= Any non-ocular TEAES Fatal ie, deaths Serious Withdrawals or discontinuations CNS (confusion/extrapyramidal) AE related to falling Cardiovascular events	h non-ocular navclient&aq=&oq= N= 71 (100%) 51 (71.8%) 0 5 (7.0%) 0 2 (2.8%) 0	EPAR+EYLEA+LUCEN EYE (100%) 166 (82.2%) 1 (0.5%) 21 (10.4%) 5 (2.5%) Any nor 8 (4.0%) 6 (3.0%)	mergent adve ITIS&hl=es&ie=UTF-8 N= 163(100%) N 129 (79,1%) 3 2 (1.2%) 29 (17.8%) 3 2 (1.2%) 1-0cular TEAE 9 (5.5%) 6 (3.7%)	erse event &riz=114ADRA_ese = 478 (100%) 93 (82.2%) 8 (1.7%) 83 (17.4%) 11 (2.3%) Es by AE gro 8 (1.7%) 8 (1.7%)	the elde ty po S482ES482&q=EPAR+E (N= 274 (100%) 235 (85.8%) 6 (2.2%) 80 (29.2%) 7 (2.6%) 9 (3.3%) 24 (8.8%)	Pulation grou VLEA+LUCENTIS&gs_ (100a) N= 861(100%) 732 (85.0%) 20 (2.3%) 221 (25.7%) 32 (3.7%) 26 (3.0%) 49 (5.7%)	uped by age (=hp0.1.538674. N= 87 (100%) 79 (90.8%) 7 (8.0%) 32 (35.8%) 4 (4.6%) 2 (2.3%) 9 (10.3%)	2 Year data) 0.4kgA6pANS (10cal) N= 283 (1009 251 (88.7% 17 (6.0%) 112 (39.6% 25 (8.8%) 15 (5.3%) 47 (16.6%
Table 7: Number of subjects wit https://www.google.es/search?sourceid= Any non-ocular TEAES Fatal ie, deaths Serious Withdrawals or discontinuations CNS (confusion/extrapyramidal)	h non-ocular navclient&aq=&oq= N= 71 (100%) 51 (71.8%) 0 5 (7.0%) 0 2 (2.8%) 0 3 (4.2%)	treatment-e EPAR+EYLEA+LUCEN Lye (1003) 166 (82.2%) 1 (0.5%) 21 (10.4%) 5 (2.5%) Any nor 8 (4.0%) 6 (3.0%) 6 (3.0%) 2 (1.0%)	mergent adve ITIS&hl=es&ie=UTF-8 I= 163(100%) N 129 (79,1%) 2 (1.2%) 29 (17.8%) 2 (1.2%) 1-ocular TEAE 9 (5.5%) 6 (3.7%) 8 (4.9%) 0	eriz=114ADRA_ese &riz=114ADRA_ese = 478 (100%) 93 (82.2%) 8 (1.7%) 83 (17.4%) 11 (2.3%) 5 by AE gro 8 (1.7%) 8 (1.7%) 8 (1.7%) 21 (4.4%) 6 (1.3%)	the elde .y po 5482E5482&q=EPAR+E (N= 274 (100%) 235 (85.8%) 6 (2.2%) 80 (29.2%) 7 (2.6%) 9 (3.3%) 24 (8.8%) 18 (6.6%)	Pulation grou VLEA+LUCENTIS&gs (100a) N= 861(100%) 732 (85.0%) 20 (2.3%) 20 (2.3%) 221 (25.7%) 32 (3.7%) 26 (3.0%) 49 (5.7%) 41 (4.8%)	uped by age (=hp0.1.538674 N= 87 (100%) 79 (90.8%) 7 (8.0%) 32 (36.8%) 4 (4.6%) 2 (2.3%) 9 (10.3%) 9 (10.3%)	2 Year data) 0.4kgA6pANS (100a) N= 283 (1009 251 (88.7% 17 (6.0%) 112 (39.6% 25 (8.8%) 15 (5.3%) 47 (16.6% 21 (7.4%)



TERAPEUTICA NELLA DEGENERAZIONE MACULARE LEGATA ALL'ETÀ

L'APPROPRIATEZZ

L'APPROPRIATEZZA TERAPEUTICA NELLA DEGENERAZIONE MACULARE LEGATA ALL'ETÀ

TREATMENT-NAÏVE CASES OF NEOVASCULAR AMD

RESISTANT CASES OF NEOVASCULAR AMD



VISUAL AND ANATOMICAL OUTCOMES

RESEARCH LETTERS

Dramatic Resolution of Choroidal Neovascular Abnormalities After Single Aflibercept Injection Following Years of Ranibizumab Use Rapid response of retinal pigment epithelial detachments to intravitreal aflibercept in neovascular agerelated macular degeneration refractory to bevacizumab and ranibizumab

KH Patel¹, CC Chow¹, R Rathod¹, WF Mieler¹, JI Lim¹, LJ Ulanski II¹, YI Leiderman¹, V Arun² and FY Chau¹

NEOVASCULAR AGE-RELATED MACULAR

Aflibercept Therapy for Exudative Age-related Macular Degeneration Resistant to Bevacizumab and Ranibizumab

BENJAMIN BAKALL, JAMES C. FOLK, H. CULVER BOLDT, ELLIOTT H. SOHN, EDWIN M. STONE, STEPHEN R. RUSSELL, AND VINIT B. MAHAJAN Conversion to Aflibercept For Chronic Refractory Or Recurrent Neovascular Age-Related Macular Degeneration

SIC YOSHIHIRO YONEKAWA, CHRISTOPHER ANDREOLI, JOHN B. MILLER, JOHN I. LOEWENSTEIN, LUCIA SOBRIN, DEAN ELIOTT, DEMETRIOS G. VAVVAS, JOAN W. MILLER, AND IVANA K. KIM

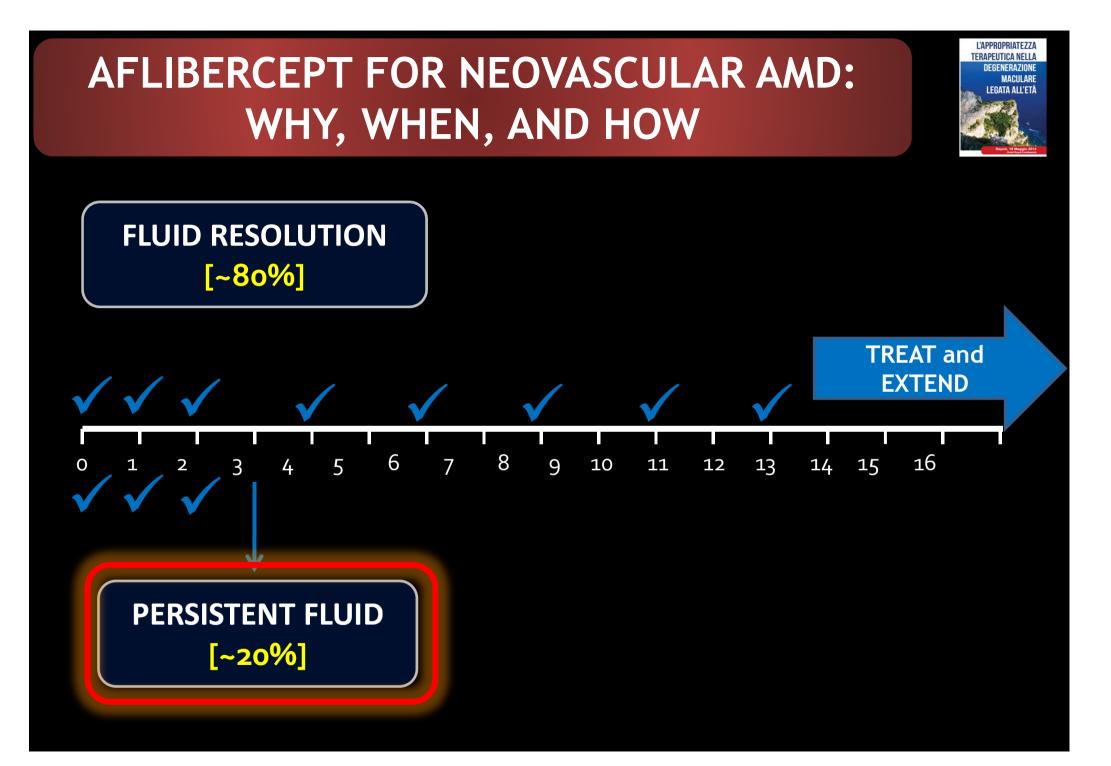
ADMAN TIEN-CHIN FUND, MDBO, MINED, JASON SLAKTER, MD, *‡ JUHN SUKENSUN, MD, *‡ K RAILEV EPELIND MD**8

K. BAILEY FREUND, MD*‡§

Short-Term Outcomes of Aflibercept for Neovascular Age-Related Macular Degeneration in Eyes Previously Treated With Other Vascular Endothelial Growth Factor Inhibitors

VINCENT Y. HO, STEVEN YEH, TIMOTHY W. OLSEN, CHRIS S. BERGSTROM, JIONG YAN, BLAINE E. CRIBBS, AND G. BAKER HUBBARD, III Intravitreal Aflibercept for Treatment-Resistant Neovascular Age-related Macular Degeneration

Andrew A. Chang, FRANZCO, PhD,^{1,2} Haitao Li, MBBS, PhD,¹ Geoffrey K. Broadhead, MBBS,^{1,2} Thomas Hong, MScMed, BAppSc,¹ Timothy E. Schlub, BSc(Hons), PhD,³ Wijeyahumar, MOTH, BSc,^{1,2} Meidong Zhu, MBBS, PhD²

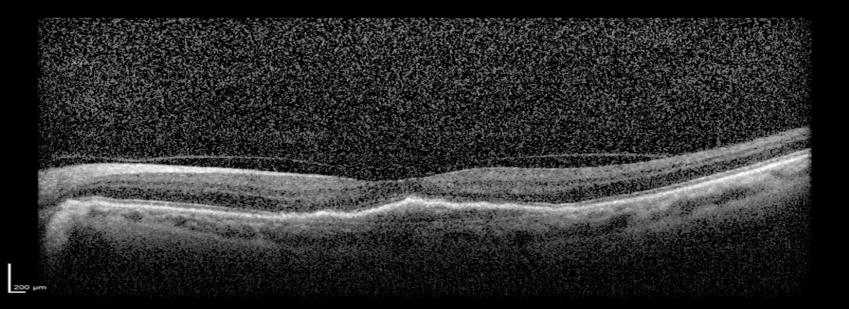


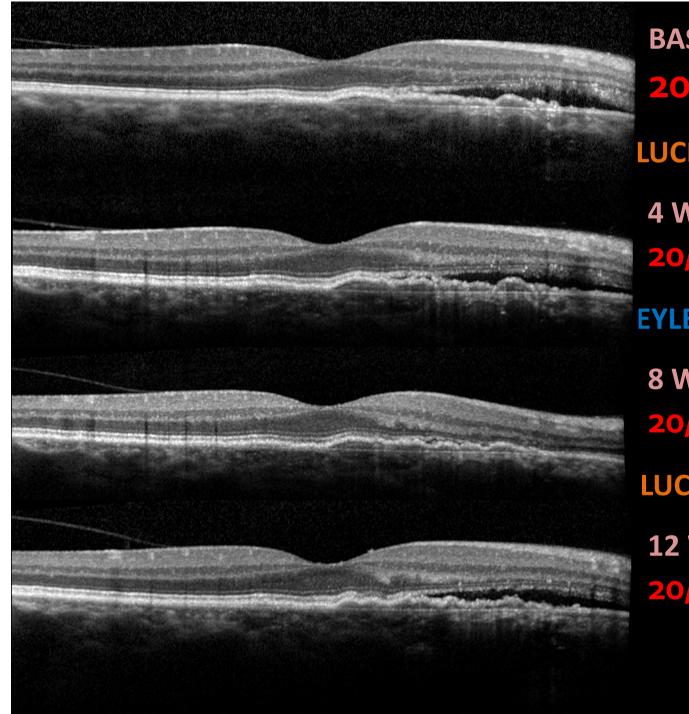


VERIFY LACK OF ANATOMIC RESPONSE TO THERAPY

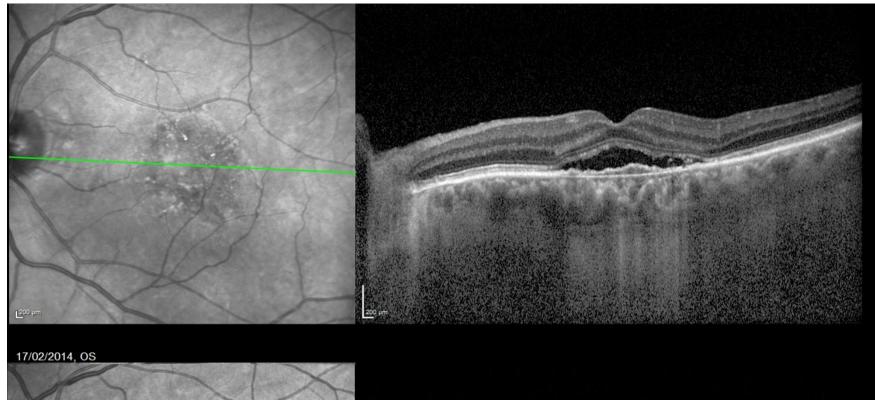
PERFORM THE SWAP AFTER INJECTION #6

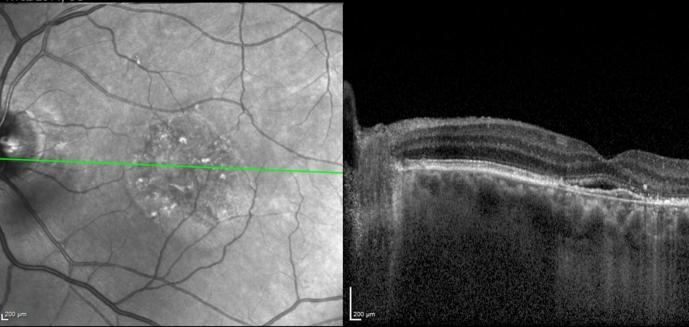
INITIATE NEW TREATMENT WITH 3 MONTHLY INJECTIONS





BASELINE 20/25 LUCENTIS **4 WEEKS** 20/30 **EYLEA** 8 WEEKS 20/25 LUCENTIS **12 WEEKS** 20/30

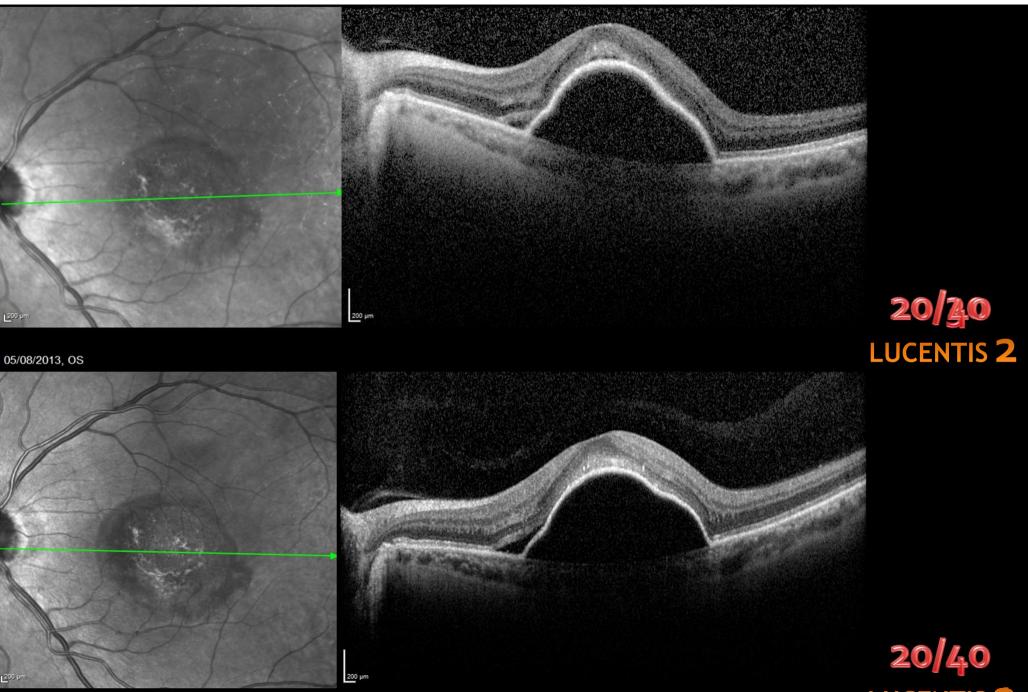








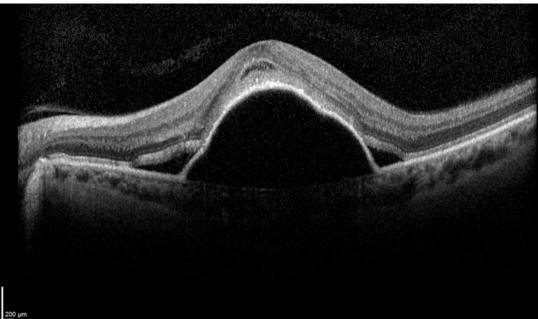
05/03/2014, OS





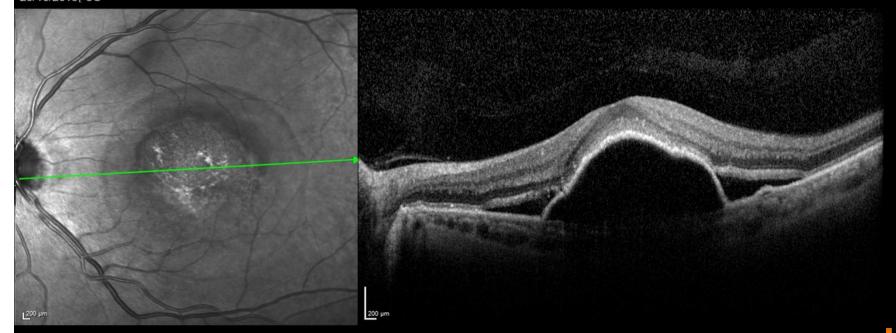
11/09/2013, OS





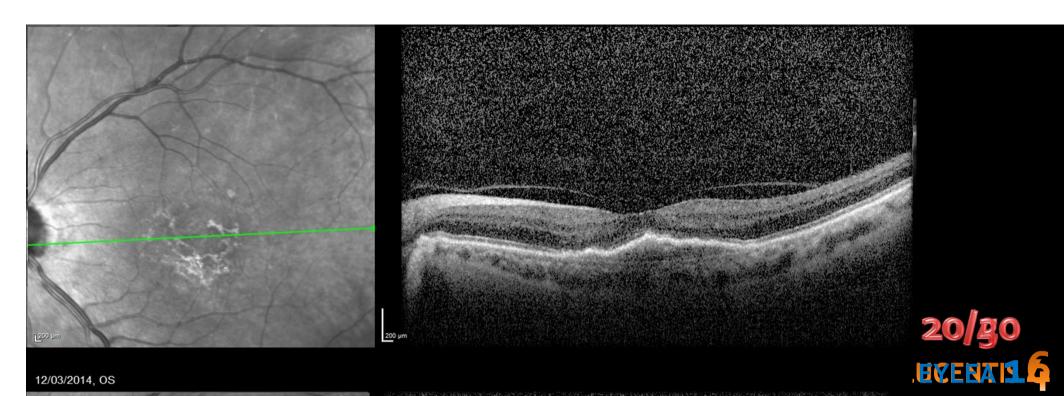
20/40 LUCENTIS **2**

23/10/2013, OS

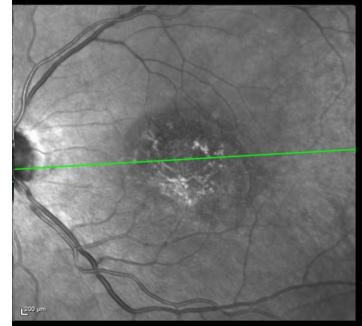


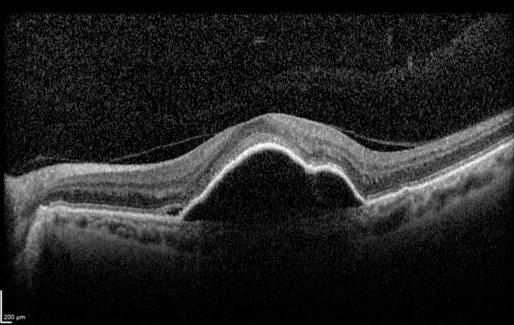
20/50 LUCENTIS 5

04/12/2013, OS



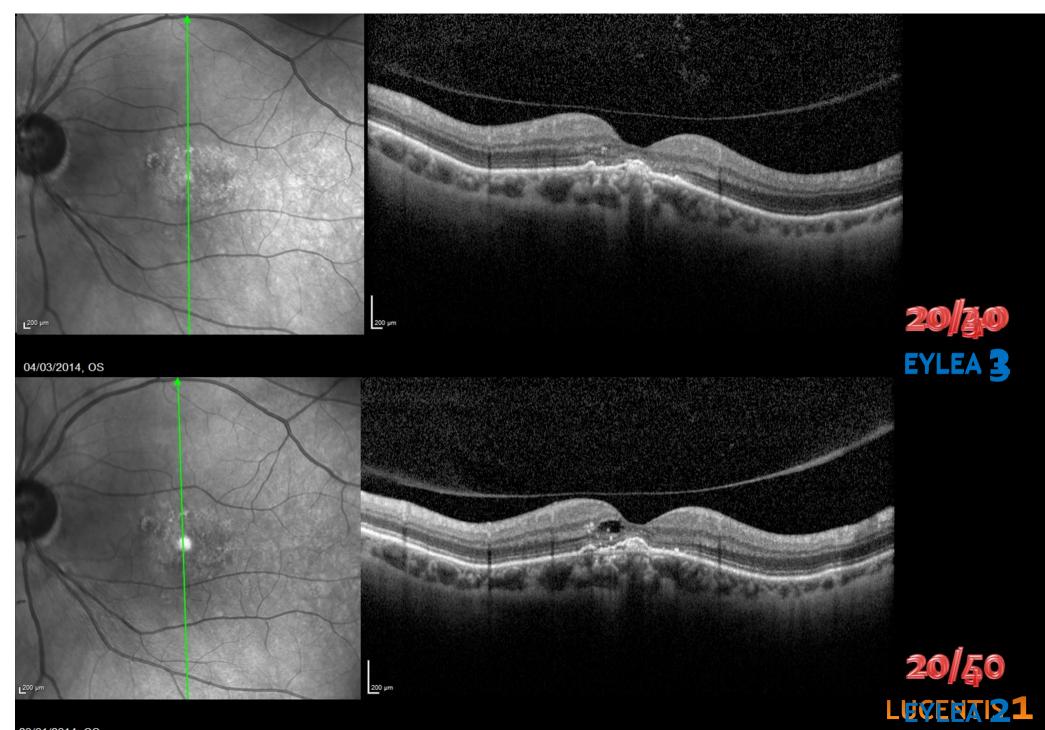
12/03/2014, OS







12/02/2014, OS



23/01/2014 OS



- Classify CNV by FA + SD-OCT
- Strongly consider EYLEA as first line therapy for certain cases
 - Loading dose with 3 monthly treatments
 - If persistent fluid ... consider monthly treatment
 - Second and following years ... go for treat and extend

- Strongly consider EYLEA as rescue therapy no later than injection #6
 - Avoid calling a wrong number



- Loading dose with 3 monthly treatments
- If persistent fluid ... keep treating monthly
- Second and following years ... probably go for treat and extend



AMD CLASSIFICATION AND RATIONALE FOR THERAPEUTIC STRATEGIES

IDENTIFICATION AND MANAGEMENT OF RESISTANT NEOVASCULAR AMD

AMD MANAGEMENT ... What changes with a new player



Roberto Gallego-Pinazo

Unit of Macula, Department of Ophthalmology University and Polytechnic Hospital La Fe, Valencia, Spain