Correlation between OCT en face and multifocal ERG

Carl Arndt

Reims

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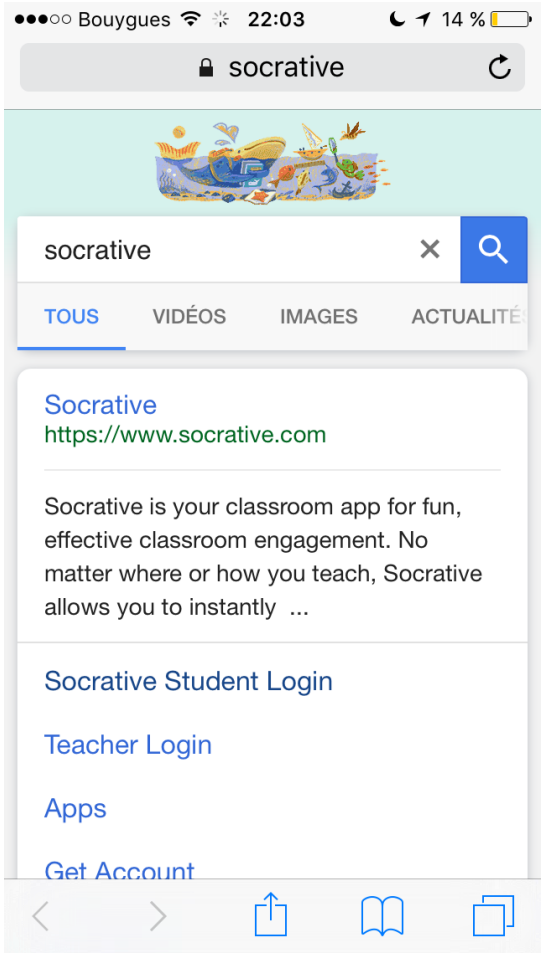

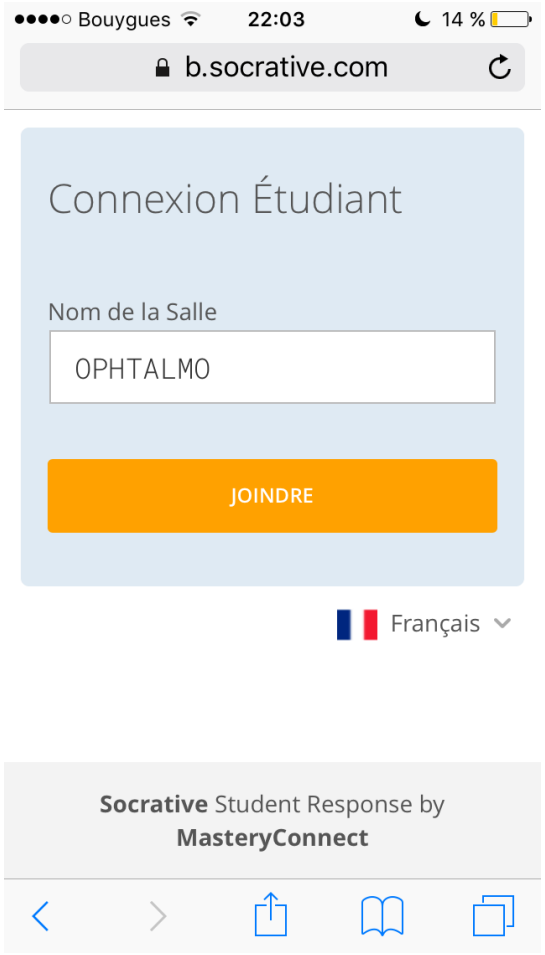

First line screening for antimalarial toxicity?

- A) Goldmann perimetry
- B) Static 30° perimetry
- C) Static 10° perimetry
- D) Multifocal ERG
- E) Spectral Domain B Scan OCT

First line screening for antimalarial toxicity?

- A) Goldmann perimetry
- B) Static 30° perimetry
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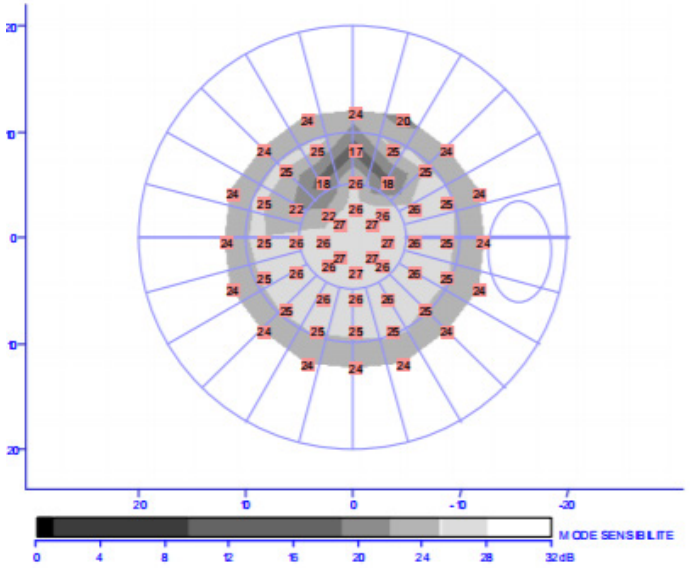
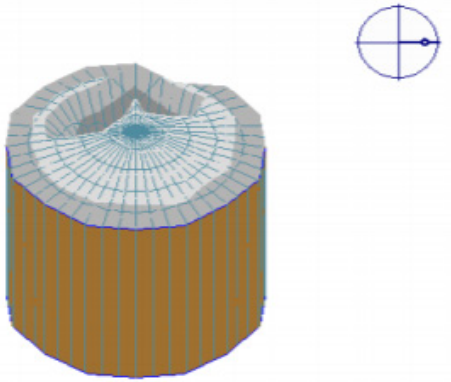
- E) Spectral Domain B Scan OCT

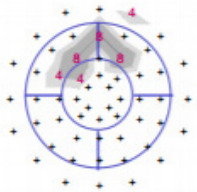
carte 2D en sensibilité



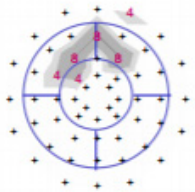
carte 3D en sensibilité



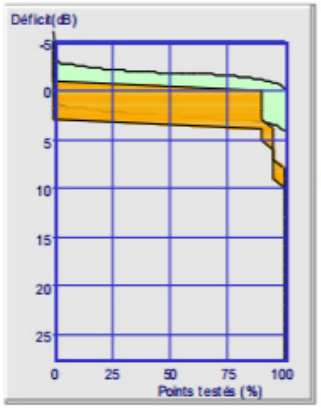
Abnormal VF



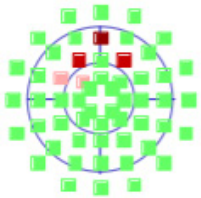
Valeurs des déficits



Valeurs des déficits corrigés

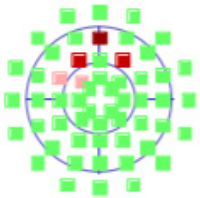


Volume du déficit : 24dB.deg2



Probabilités des déficits

p> 5%
p< 5%
p< 2%
p< 1%
p< 0.5%



Probabilités des déficits corrigés

Déficit moyen (1) :	
Déficit moyen corrigé (2) :	0,6dB
Variance des déficits :	4dB2
Fluctuation spatiale :	1,2dB
Fluctuation temporelle :	
Temps de réponse moyen :	533 m s
Pertes de fixation :	1/6
Pertes d'attention :	0/7
Durée de l'examen :	2m n 20s
Correction carte de référence :	0dB
Diamètre pupille :	
Stimulus :	III

(1) somme des déficits globaux et locaux
(2) déficits locaux uniquement

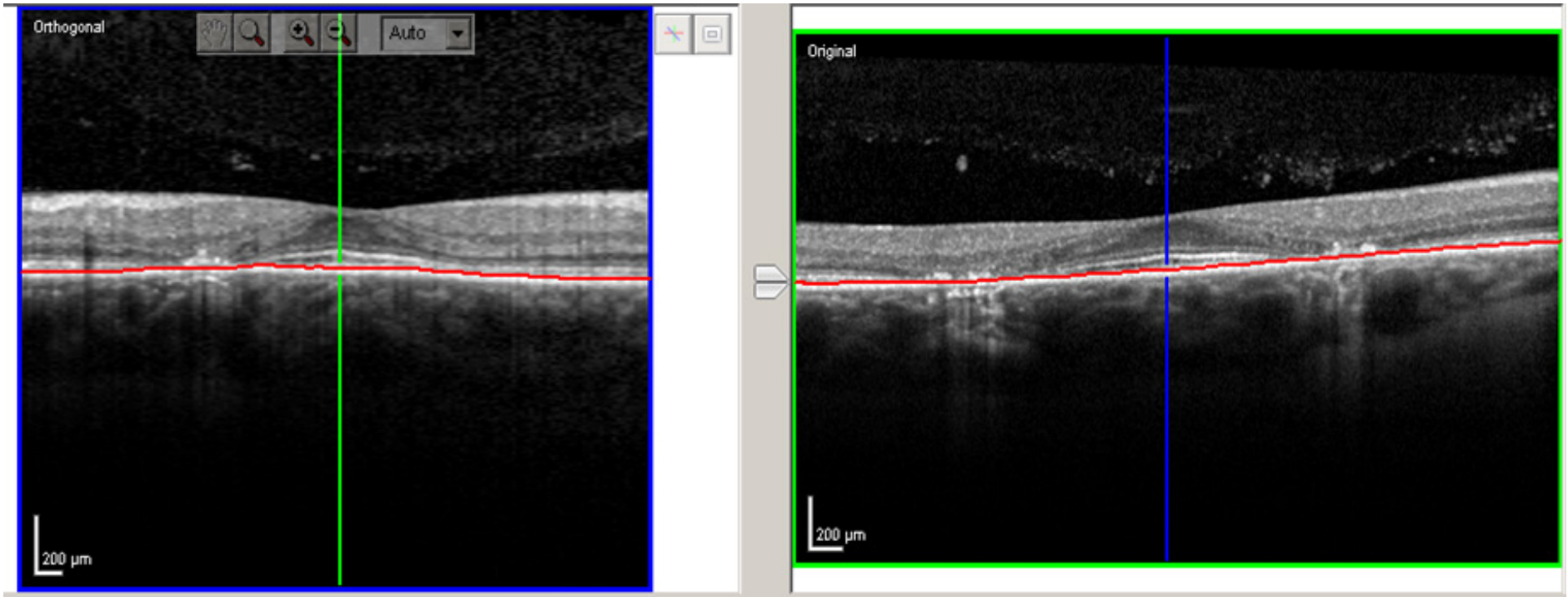
Le champ visuel maculaire (10.2 ou FAST 12) est altéré. Vous faites:

- A) Un ERG multifocal
- B) Un ERG global
- B) OCT B
- C) SD-OCT-C ou „en face“
- D) SD-OCT-A
- E) Autofluorescence

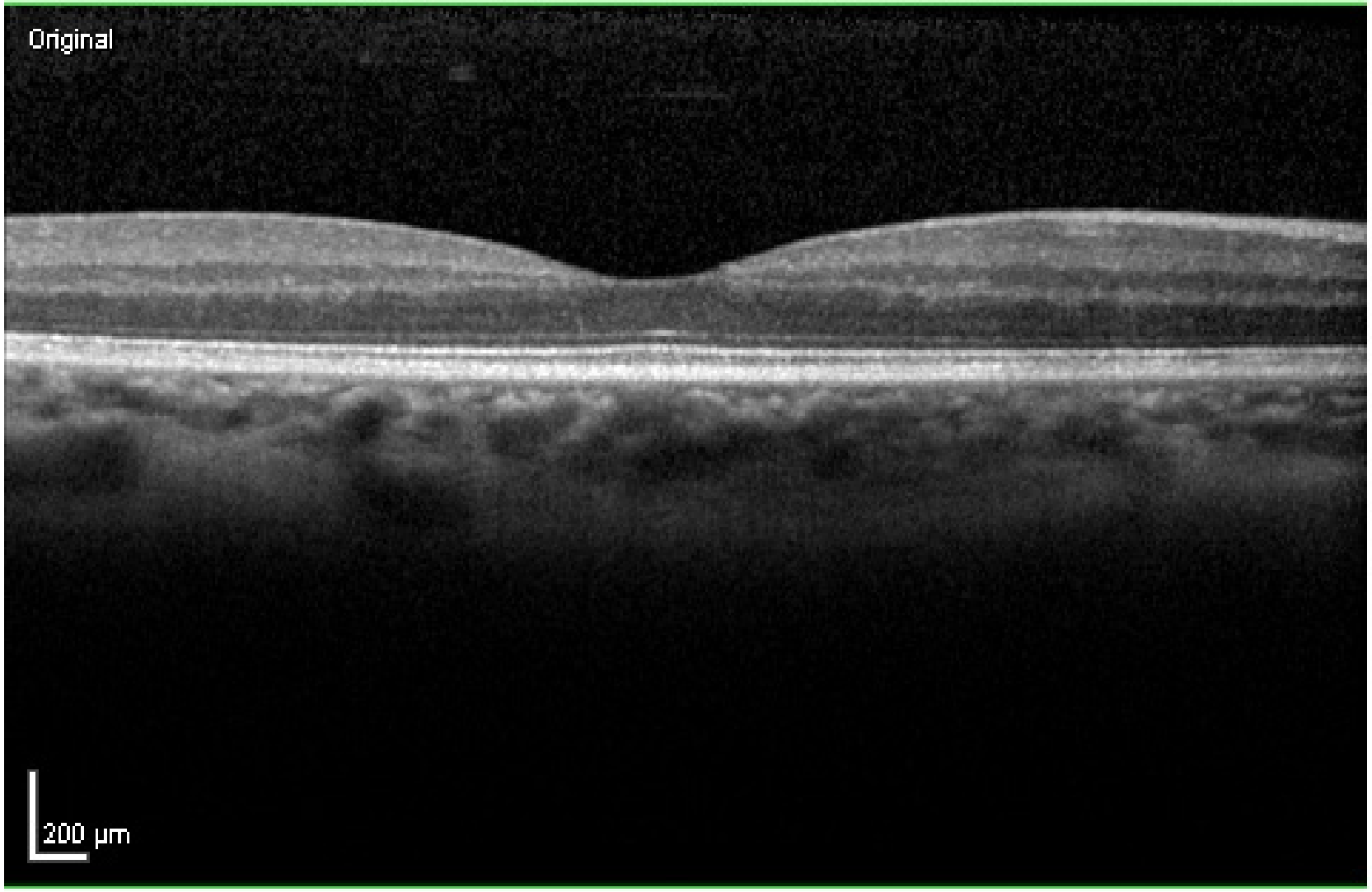
Le champ visuel maculaire (10.2 ou FAST 12) est altéré. Vous faites:

- A) Un ERG multifocal
- B) Un ERG global
- B) OCT B non mais SD-OCT B
- C) SD-OCT-C ou „en face“
- D) SD-OCT-A
- E) Autofluorescence

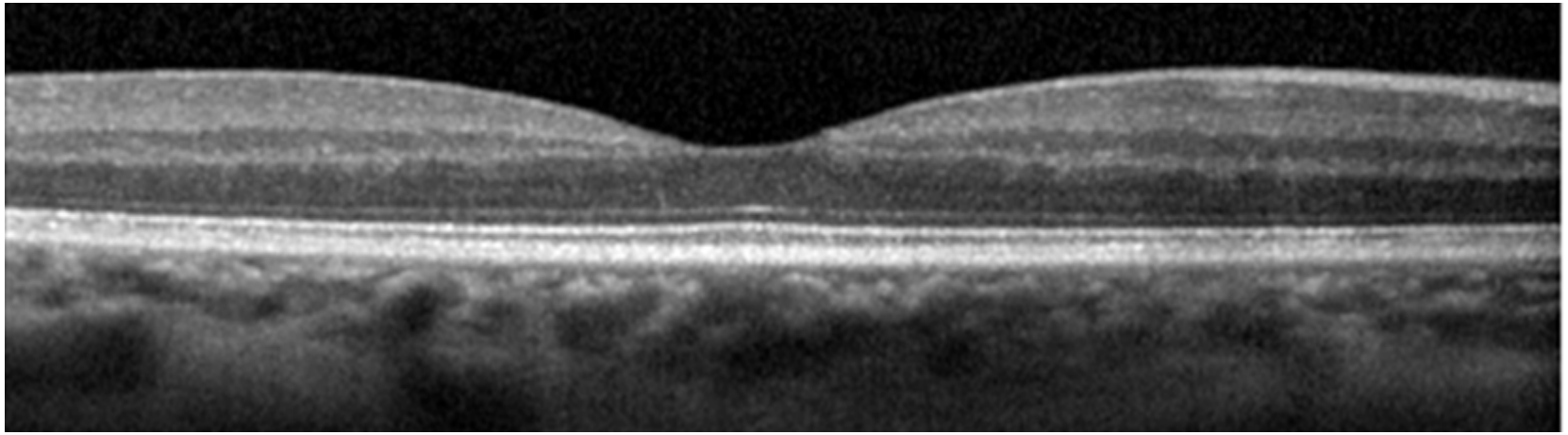
Spectral domain B-OCT



Normal Spectral Domain B OCT



The VF is abnormal but the Spectral Domain B Scan OCT is normal, you decide to do



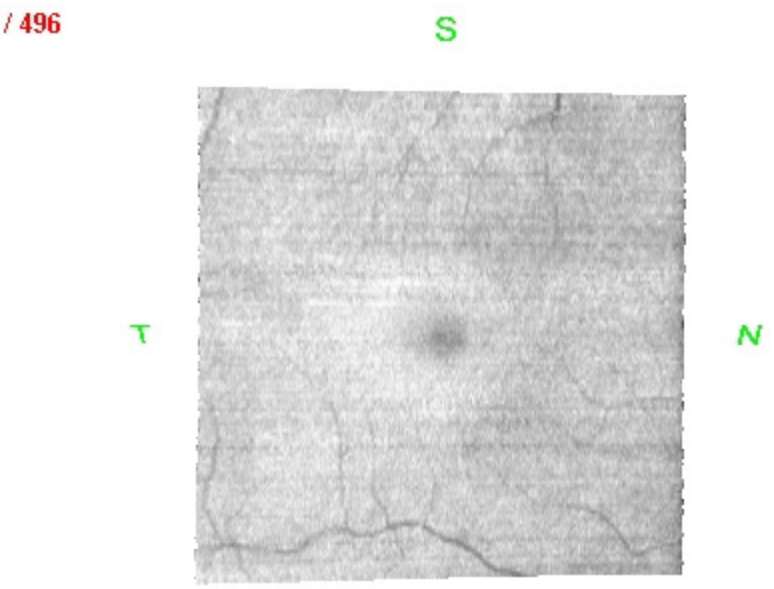
- A) nothing as the B scan is normal
- B) C Scan OCT « en face »
- C) Multifocal ERG
- D) EOG
- E) Autofluorescence

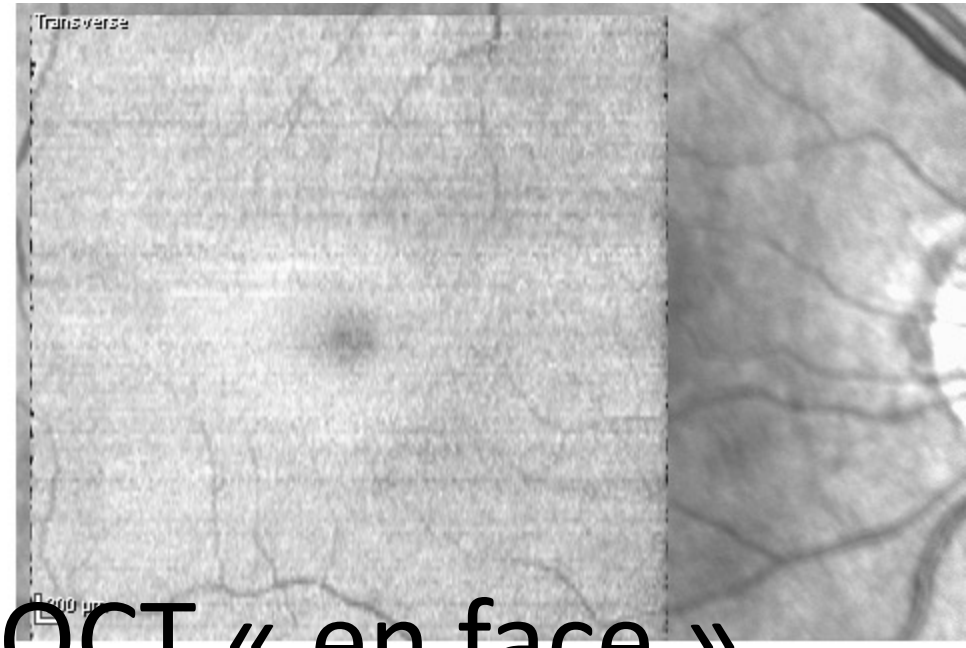
The VF is abnormal but the Spectral Domain B Scan OCT is normal, you decide to do

- A) nothing as the B scan is normal
- B) C Scan OCT « en face »
- C) Multifocal ERG
- D) EOG
- E) Autofluorescence

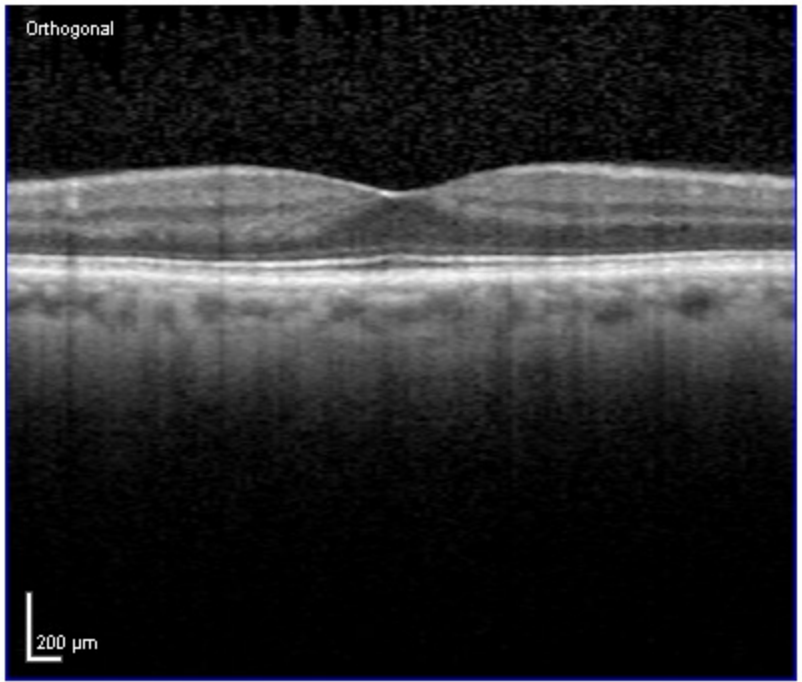
C- OCT „en face“

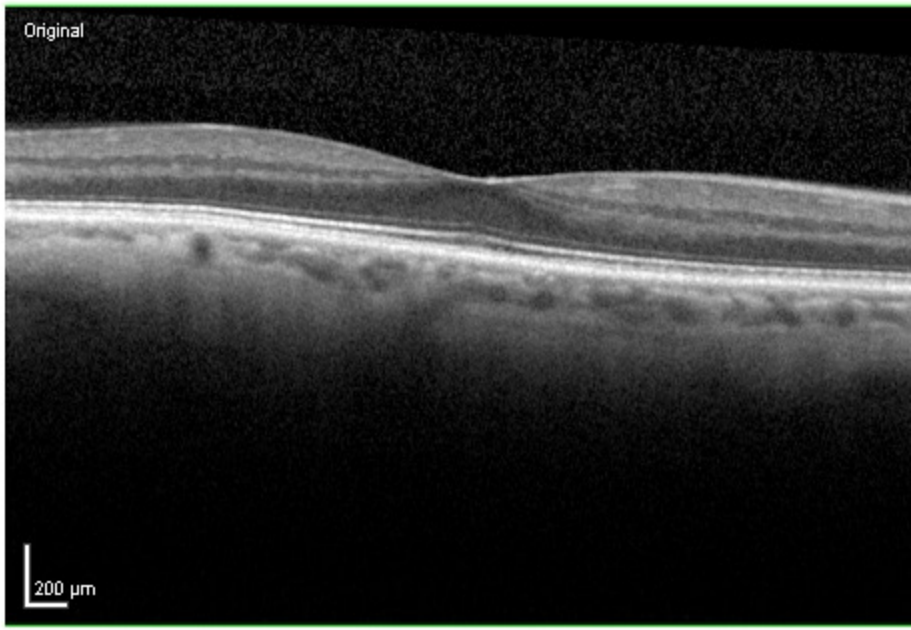
B- OCT





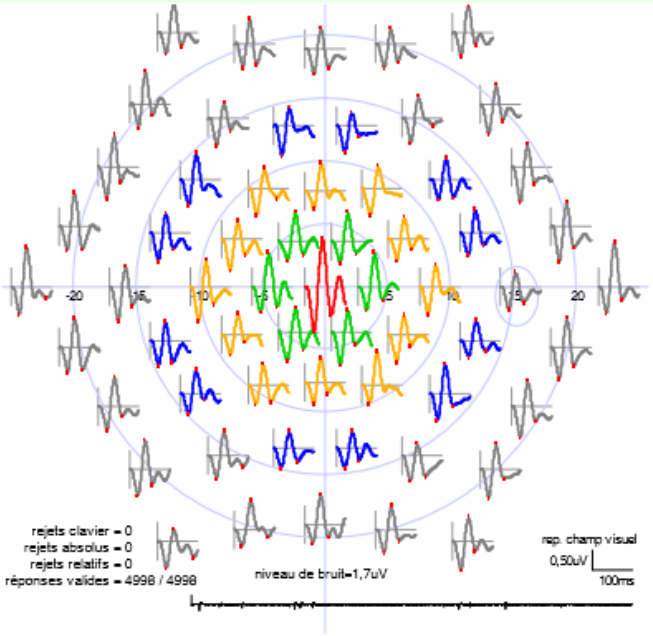
Normal C-Scan OCT « en face »





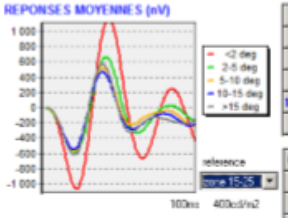
MERG61B — CARTE DES REPONSES LOCALES

OD stimulé

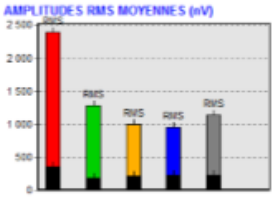


MERG61B — ANALYSE PAR ZONES (ANNEAUX)

OD stimulé

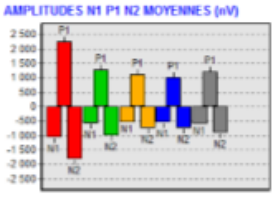


RMS	signal	bruit	s/sp
<2 deg	2380	354,0	2,10
2-5 deg	1287	198,0	1,10
5-10 deg	992	211,0	0,87
10-15 deg	961	221,0	0,84
>15 deg	1142	227,0	1,00



ONDE N1	amplitude	temps impl	N/Np
<2 deg	-1068	22,6	1,70
2-5 deg	-587	21,6	0,94
5-10 deg	-567	21,0	0,91
10-15 deg	-549	20,7	0,88
>15 deg	-622	20,9	1,00

ONDE P1	amplitude	temps impl	P/P2p
<2 deg	2237	43,5	1,90
2-5 deg	1257	41,7	1,00
5-10 deg	1096	39,8	0,91
10-15 deg	1024	39,5	0,85
>15 deg	1203	39,4	1,00

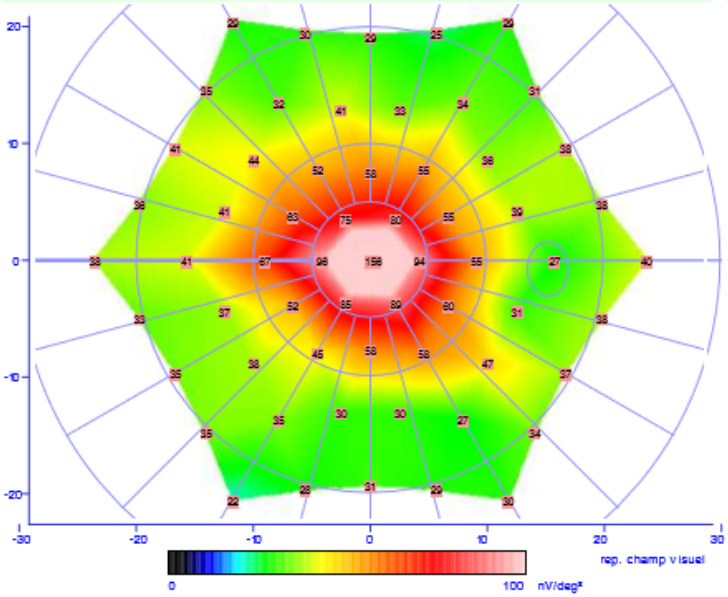


ONDE N2	amplitude	temps impl	P1/N1
<2 deg	-1634	65,6	2,10
2-5 deg	-1008	62,0	2,10
5-10 deg	-753	58,2	1,90
10-15 deg	-755	58,7	1,90
>15 deg	-903	58,0	1,90

p 5% 2% 1% 0,5%

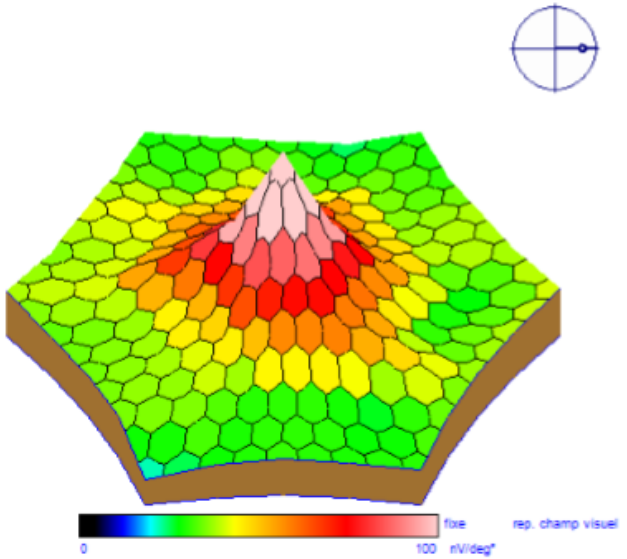
MERG61B — CARTE AMPLITUDES ONDE P1

OD stimulé



MERG61B — CARTE AMPLITUDES ONDE P1

OD stimulé



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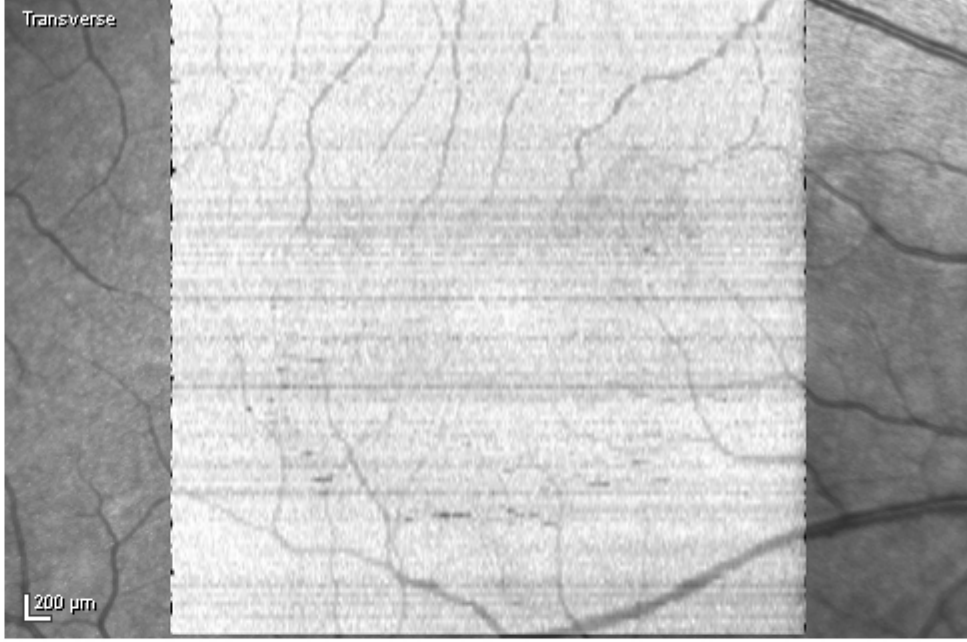
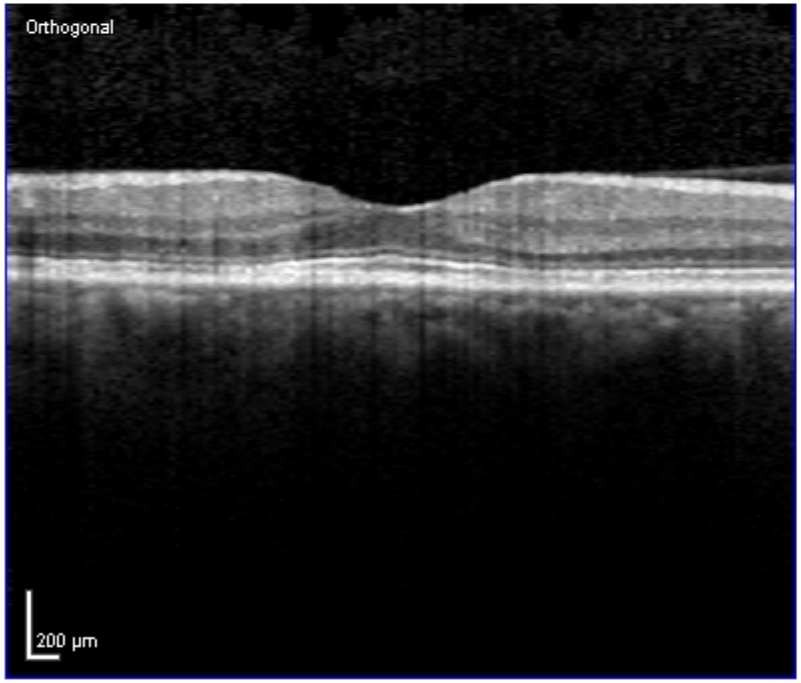
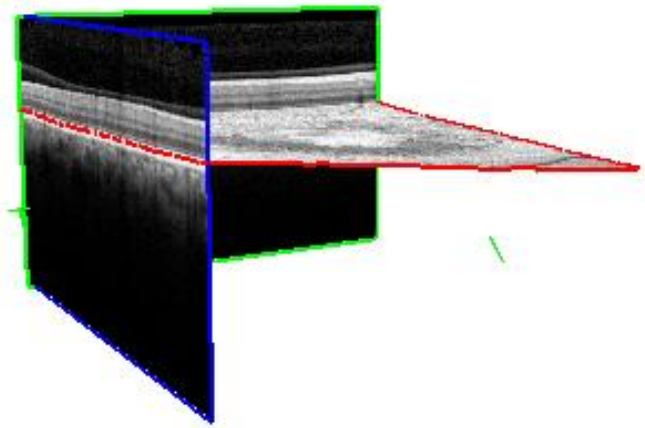
Julie Myrtille

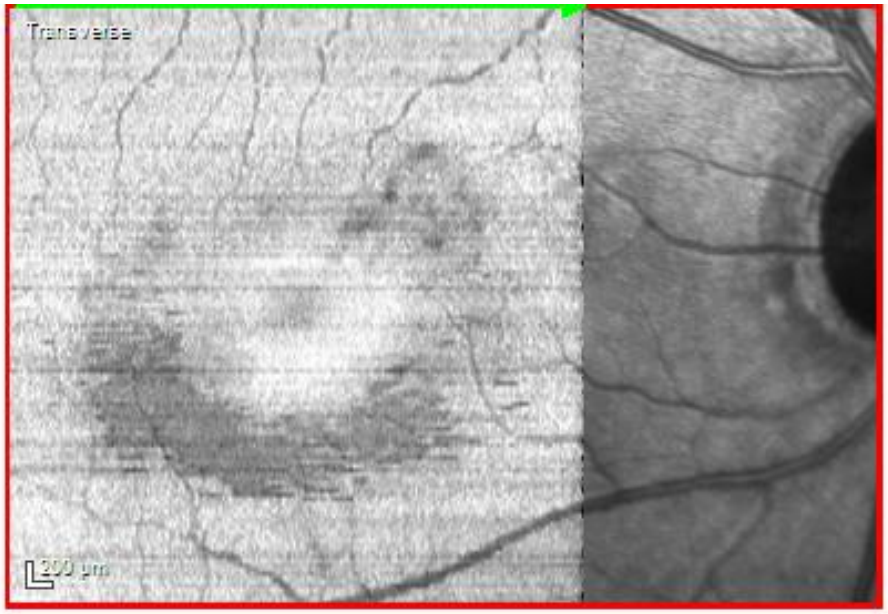
I

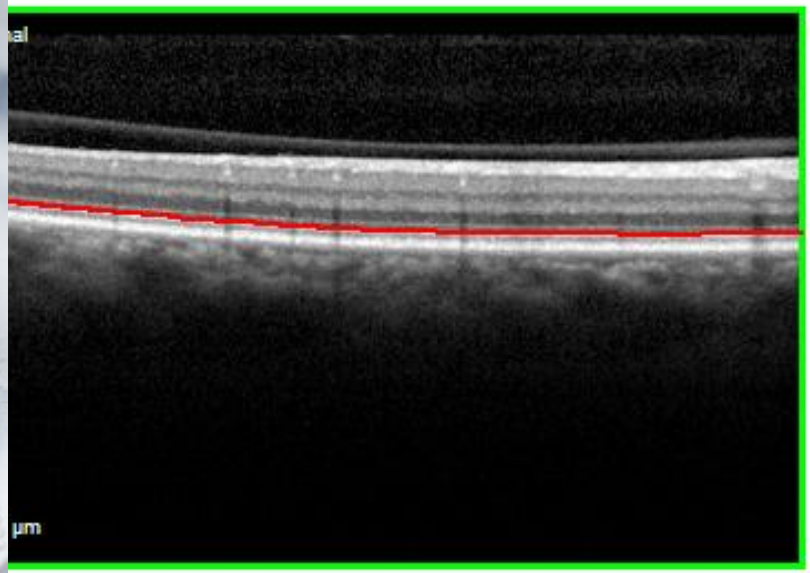

Transverse
200 µm


Orthogonal
200 µm


Original
200 µm

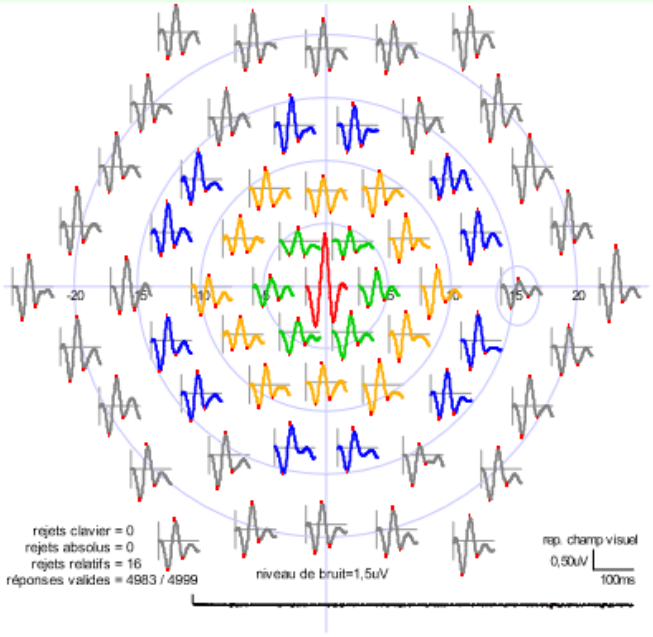



Transverse
200 µm


µm

MERG61B — CARTE DES REPONSES LOCALES

OD stimulé



MERG61B — ANALYSE PAR ZONES (ANNEAUX)

OD stimulé

RMS	signal	bruit	s/sp
<2 deg	2606	337,0	2,10
2-5 deg	800	118,0	0,62
5-10 deg	1006	165,0	0,77
10-15 deg	1161	214,0	0,89
>15 deg	1301	211,0	1,00

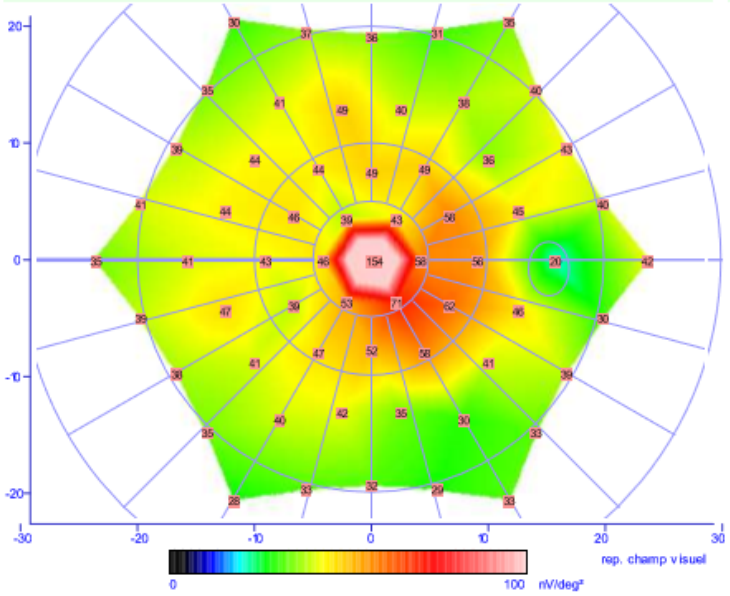
ONDE N1	amplitude	temps impl	N/Np
<2 deg	-960	23,5	1,40
2-5 deg	-467,0	25,4	0,67
5-10 deg	-556	24,1	0,80
10-15 deg	-608	23,8	0,87
>15 deg	-697	24,1	1,00

ONDE P1	amplitude	temps impl	P/P2p
<2 deg	2210	46,8	1,70
2-5 deg	749	44,8	0,58
5-10 deg	977	42,4	0,76
10-15 deg	1168	42,0	0,90
>15 deg	1291	42,1	1,00

ONDE N2	amplitude	temps impl	P1/N1
<2 deg	-2091	68,0	2,30
2-5 deg	-561	63,9	1,60
5-10 deg	-745	61,2	1,80
10-15 deg	-868	60,2	1,90
>15 deg	-980	60,2	1,90

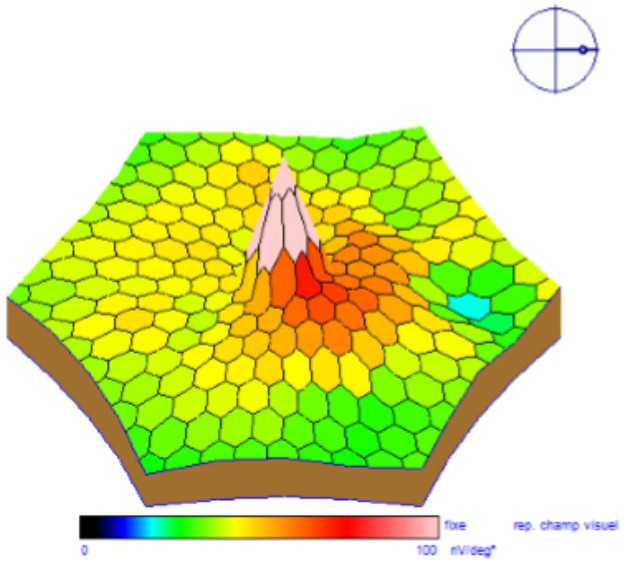
MERG61B — CARTE AMPLITUDES ONDE P1

OD stimulé



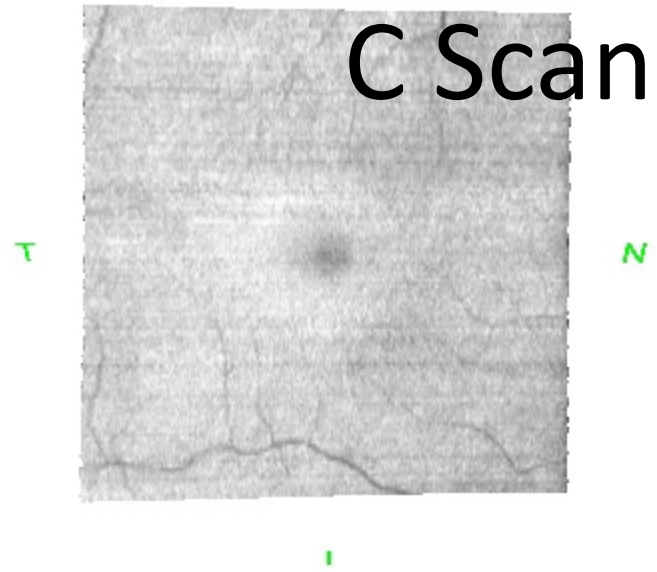
MERG61B — CARTE AMPLITUDES ONDE P1

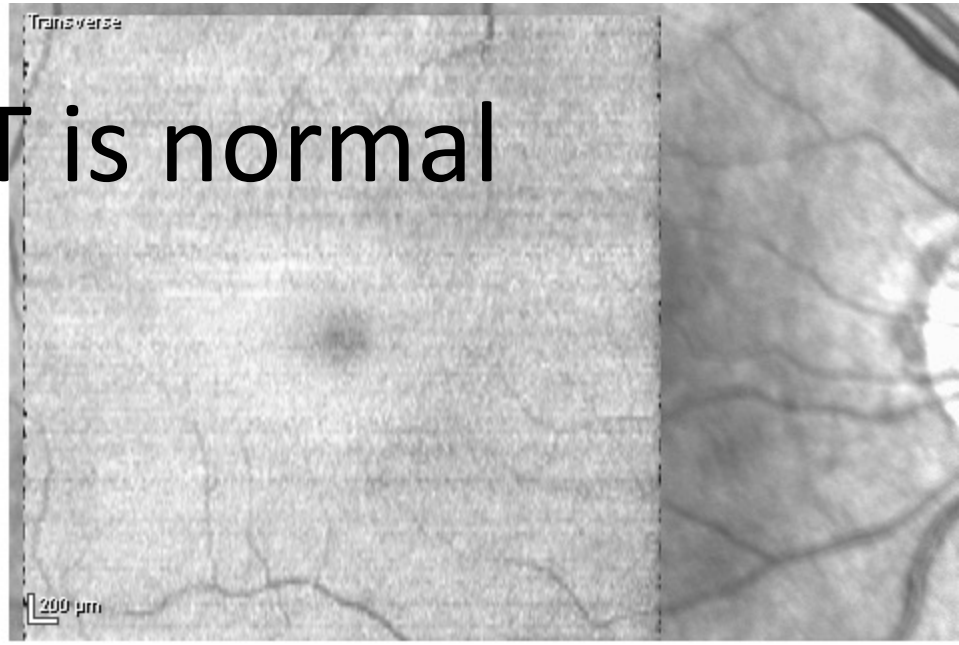
OD stimulé

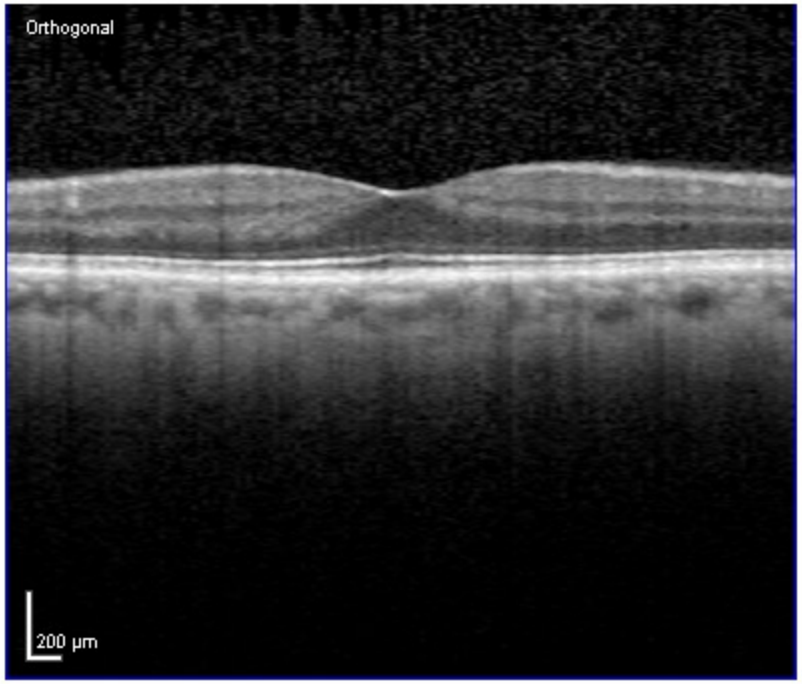


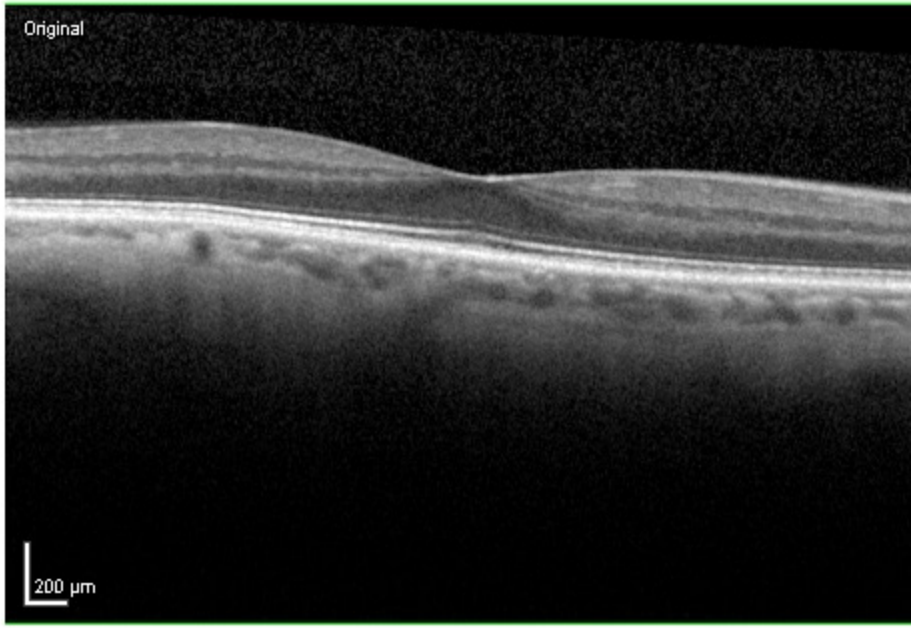
/ 496

C Scan OCT is normal

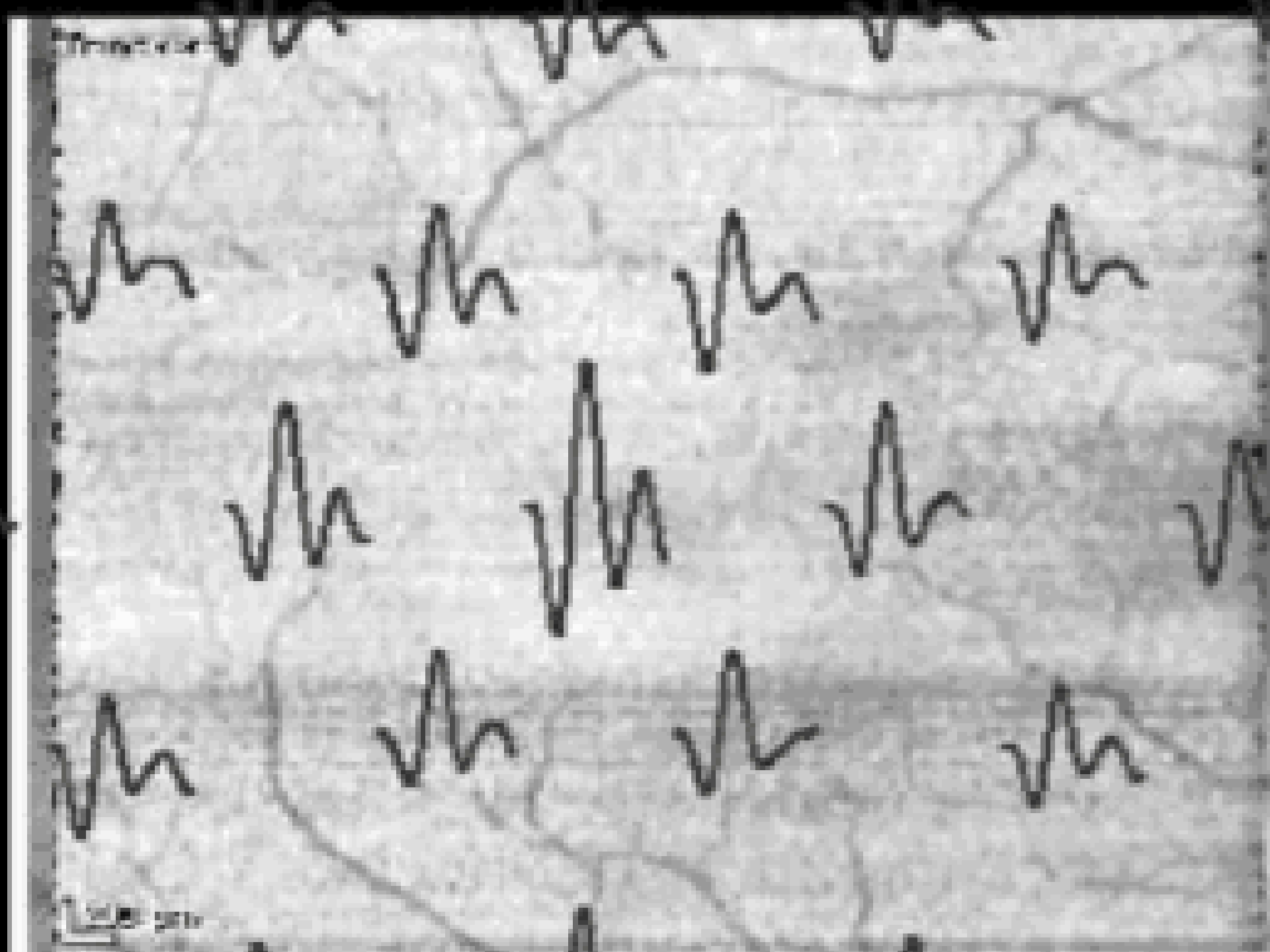






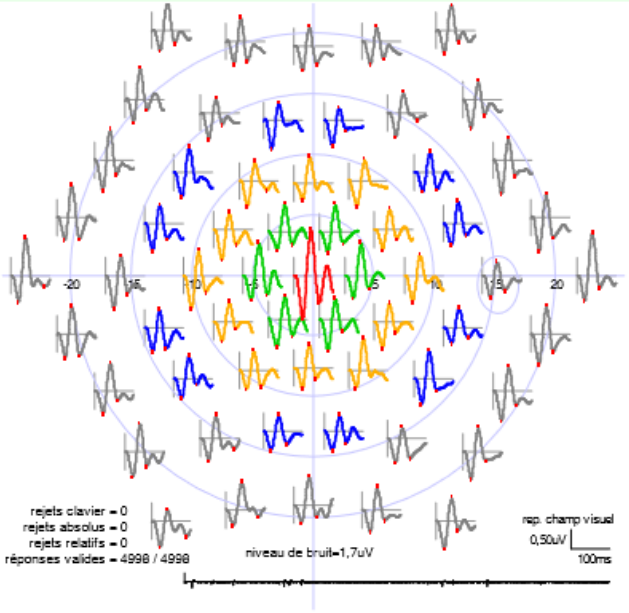


OCT en face anormal



MERG61B — CARTE DES REPONSES LOCALES

OD stimulé



MERG61B — ANALYSE PAR ZONES (ANNEAUX)

OD stimulé

RMS	signal	bruit	s/sp
<2 deg	2388	354,0	2,10
2-5 deg	1287	190,0	1,10
5-10 deg	992	211,0	0,87
10-15 deg	961	221,0	0,84
>15 deg	1142	227,0	1,00

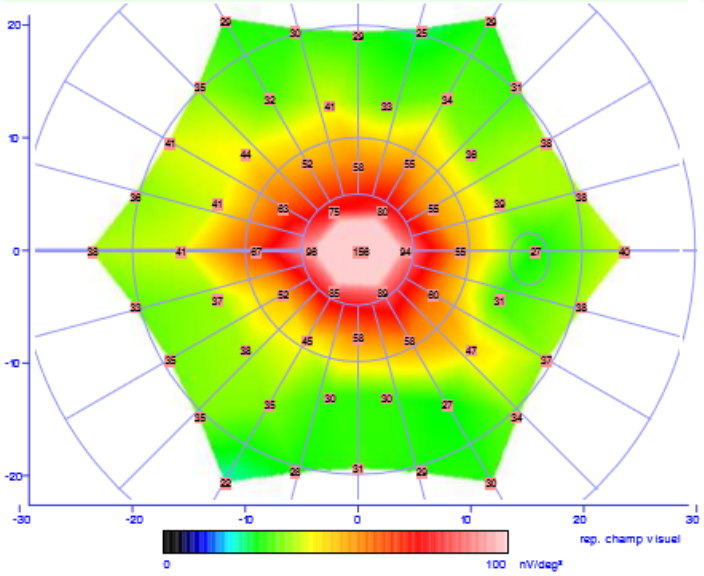
ONDE N1	amplitude	temps impl	N/Np
<2 deg	-1068	22,6	1,70
2-5 deg	-587	21,6	0,94
5-10 deg	-567	21,0	0,91
10-15 deg	-549	20,7	0,88
>15 deg	-622	20,9	1,00

ONDE P1	amplitude	temps impl	P/P2p
<2 deg	2237	43,5	1,90
2-5 deg	1257	41,7	1,00
5-10 deg	1096	39,8	0,91
10-15 deg	1024	39,5	0,85
>15 deg	1203	39,4	1,00

ONDE N2	amplitude	temps impl	P1/N1
<2 deg	-1834	65,6	2,10
2-5 deg	-1008	62,0	2,10
5-10 deg	-753	58,2	1,90
10-15 deg	-755	58,7	1,90
>15 deg	-903	58,0	1,90

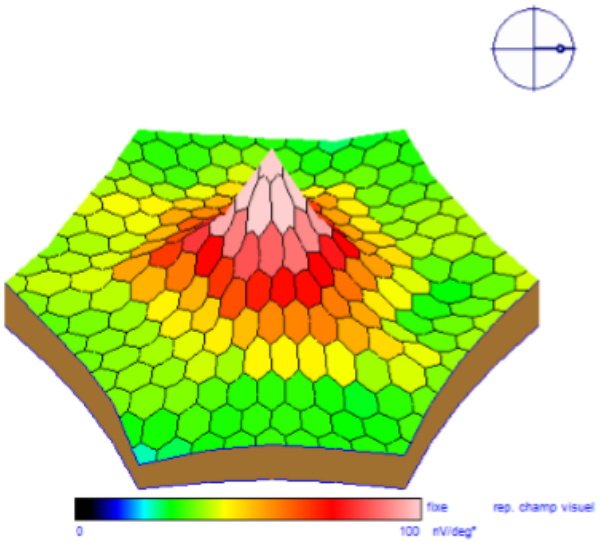
MERG61B — CARTE AMPLITUDES ONDE P1

OD stimulé



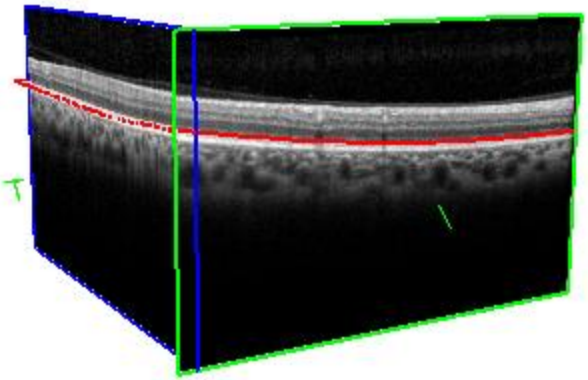
MERG61B — CARTE AMPLITUDES ONDE P1

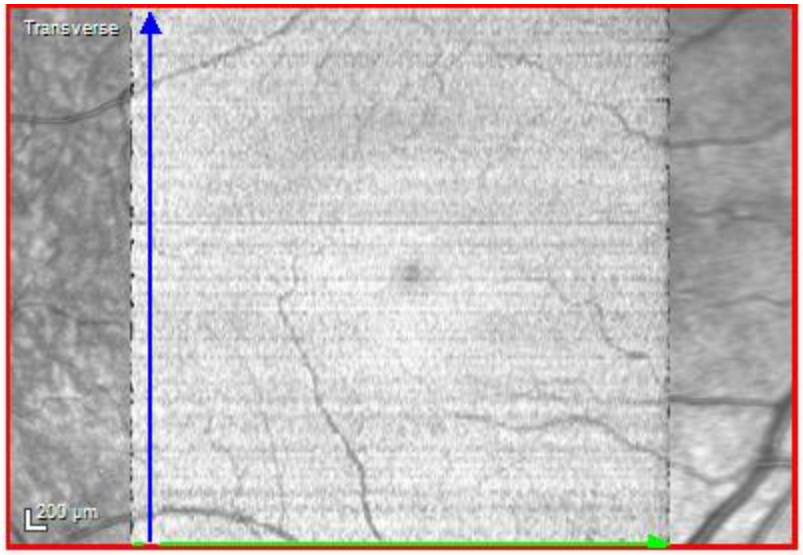
OD stimulé

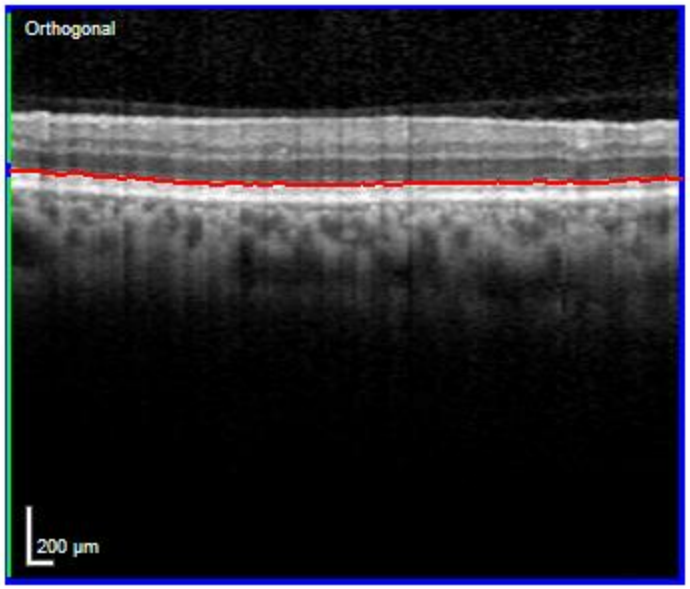


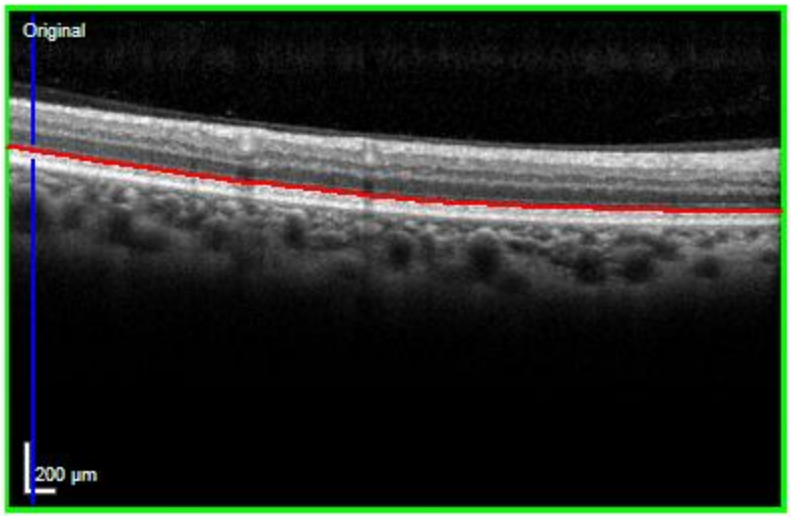
CHU de REIMS

Moniteur





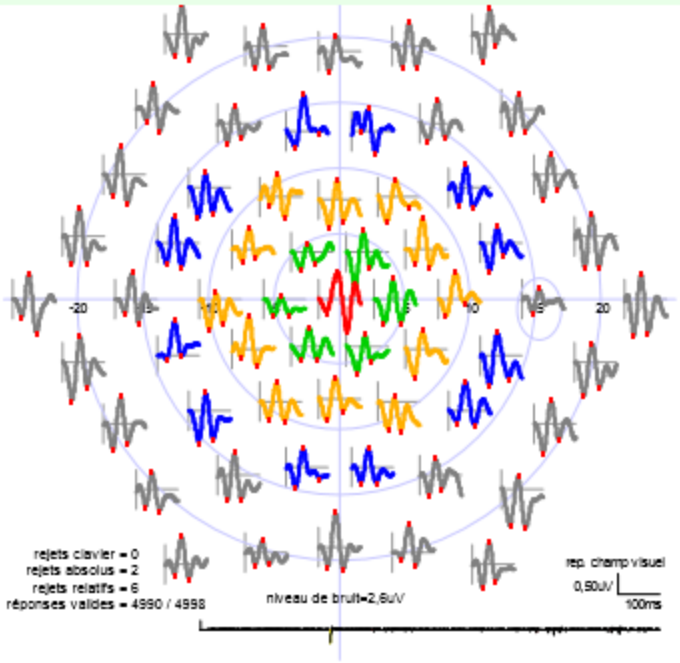




07/01/2015, OD, Transverse [Min. Intensity Proj. from PR1 to PR1], Orthogonal [Position: 170µm], Original [Positio

MERG61B
OD stimulé

CARTE DES REPONSES LOCALES



MERG61B
OD stimulé

ANALYSE PAR ZONES (ANNEAUX)

RMS	signal	bruit	s/sp
<2 deg	1642	245,0	1,50
2-5 deg	884	345,0	0,73
5-10 deg	954	357,0	0,86
10-15 deg	1056	311,0	0,96
>15 deg	1106	343,0	1,00

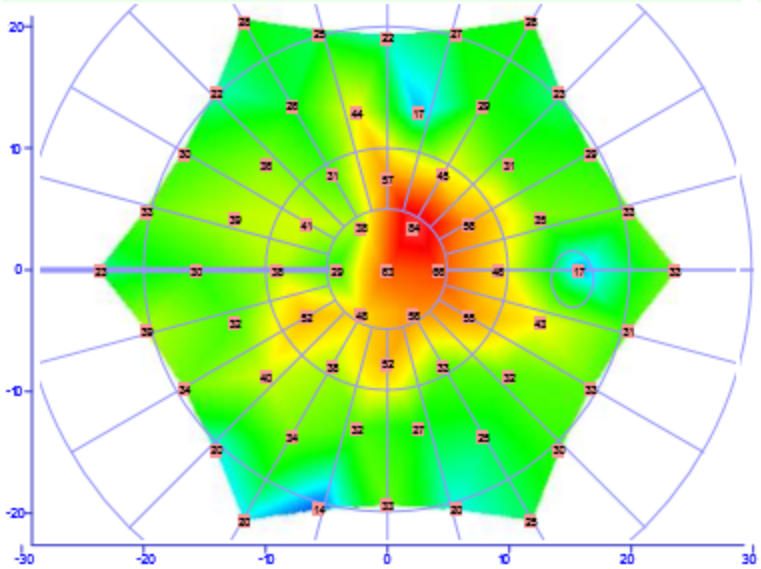
ONDE N1	amplitude	temps impl	N/Np
<2 deg	-272,8	18,0	0,55
2-5 deg	-464,0	23,3	0,94
5-10 deg	-409,0	22,4	0,83
10-15 deg	-403,0	22,0	0,82
>15 deg	-494,0	22,8	1,00

ONDE P1	amplitude	temps impl	P/Pzp
<2 deg	911	44,6	0,93
2-5 deg	735	42,9	0,75
5-10 deg	847	41,0	0,86
10-15 deg	926	40,7	0,94
>15 deg	983	40,2	1,00

ONDE N2	amplitude	temps impl	P1/N1
<2 deg	-1383	67,6	3,30
2-5 deg	-586	61,2	1,60
5-10 deg	-756	58,4	2,10
10-15 deg	-842	58,4	2,30
>15 deg	-939	57,7	2,00

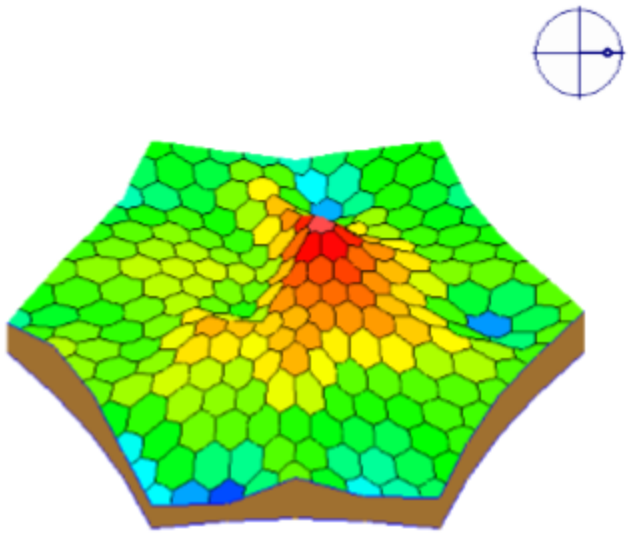
MERG61B
OD stimulé

CARTE AMPLITUDES ONDE P1



MERG61B
OD stimulé

CARTE AMPLITUDES ONDE P1



Conclusion

- Initially
  - Central Visual field and SD B-Scan OCT
- If the SD B-Scan OCT is abnormal: discontinue treatment
- If both are normal and there are no risk factors (renal failure) do a second test after 5 years of treatment
- If the central visual field is abnormal
  - SD- C Csan OCT « en Face »
  - multifocal ERG