

KHAVINSON PEPTIDES®

International Research Foundation

Peptide Bioregulator Europe AB
www.peptide-bioregulator.com

**FOLLOW UP RESULTS AFTER TREATMENT WITH
PEPTIDE BIOREGULATORS IN PATIENTS WITH
GENETIC RETINAL DISORDERS**

Few words about Retinitis Pigmentosa

- A group of genetic disorders
- Affect the retina's ability to respond to light
- Symptoms:
 - Decreased night vision- night blindness (nyctalopia)
 - Loss of side (peripheral) vision- tubular vision
 - Blindness results.
- There is no cure.



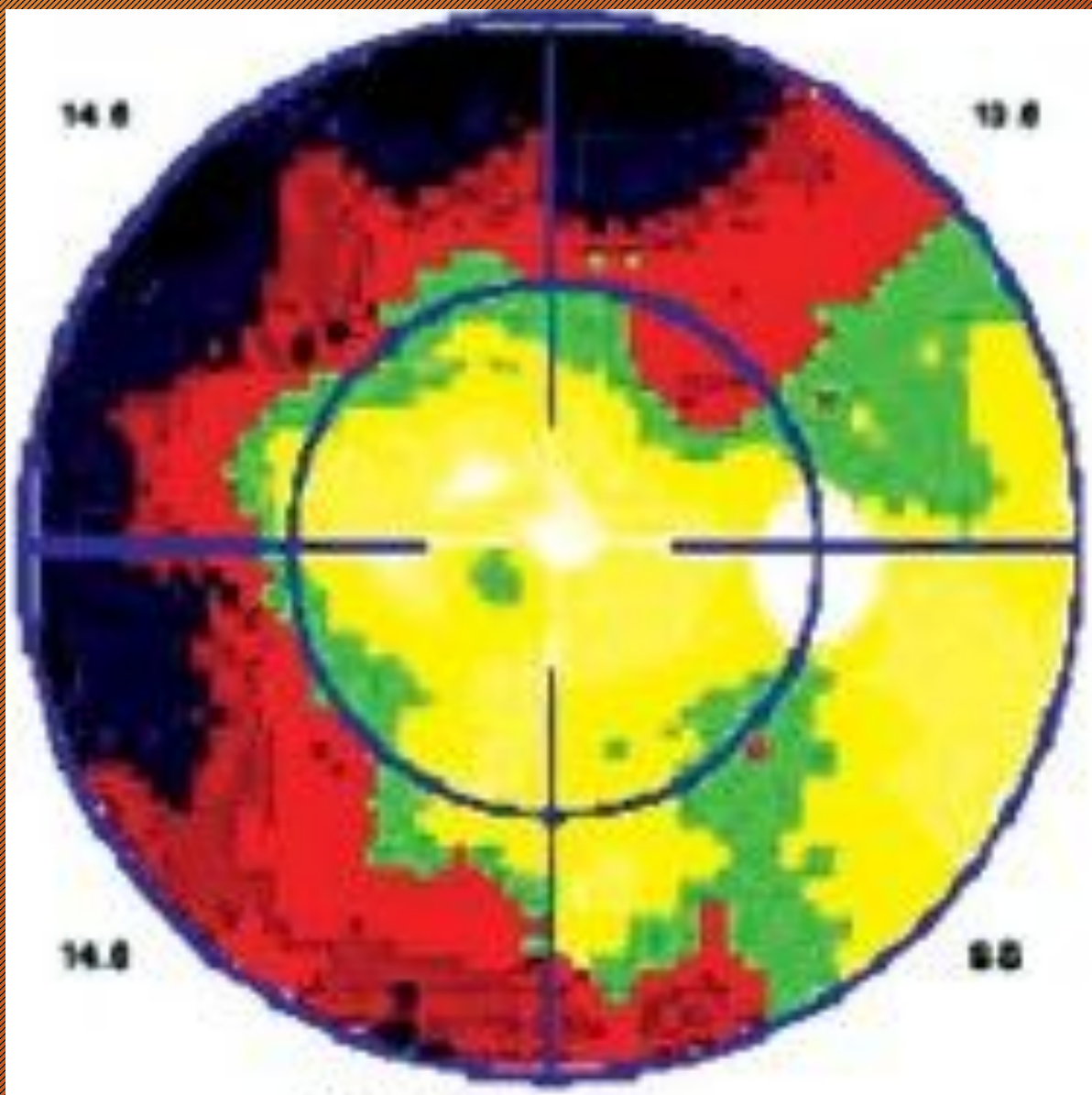
Normal eye



Eye with RP

Tubular vision





[%]

| | |
|-------------|--------|
| <div></div> | 96.100 |
| <div></div> | 83.94 |
| <div></div> | 71.82 |
| <div></div> | 59.70 |
| <div></div> | 47.58 |
| <div></div> | 35.46 |
| <div></div> | 23.34 |
| <div></div> | 11.22 |
| <div></div> | 0.10 |

Case #1

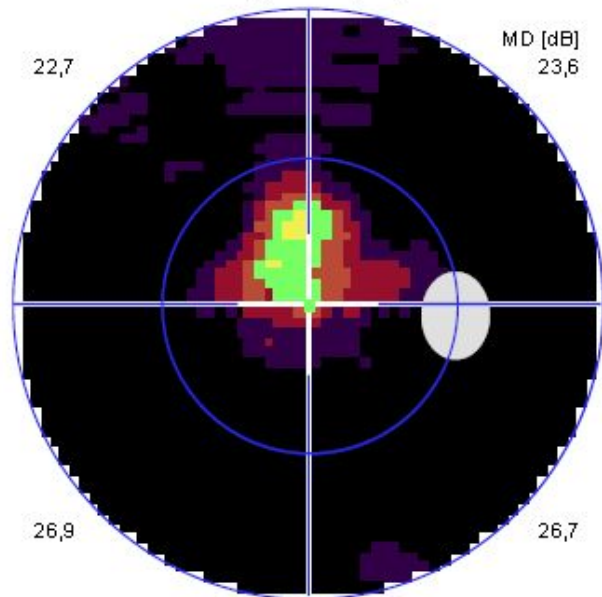
- Female patient
- 39 years old
- Pathology: Retinitis pigmentosa
- Visual acuity before treatment:
RE 5/10 cc
LE 5/10 cc
- First visit: February 2014

Visual Fields Pre-Treatment

Right eye (OD) / 02/20/2014 / 13:06:14

Seven-in-One

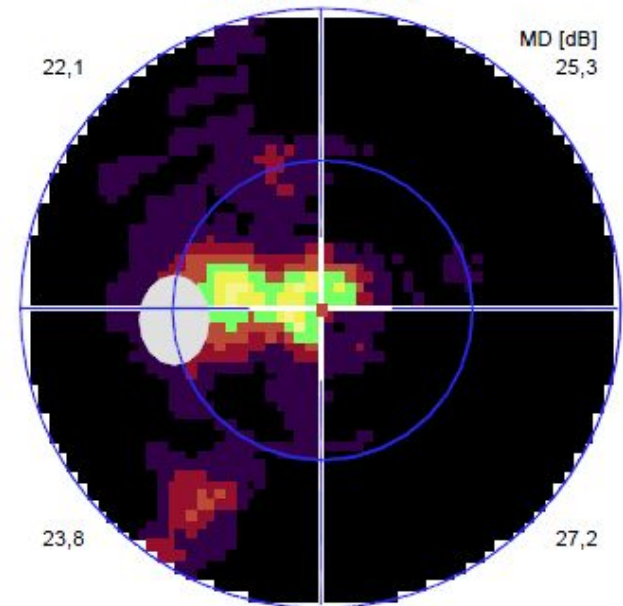
Greyscale (CO)



Left eye (OS) / 02/20/2014 / 13:21:19

Seven-in-One

Greyscale (CO)

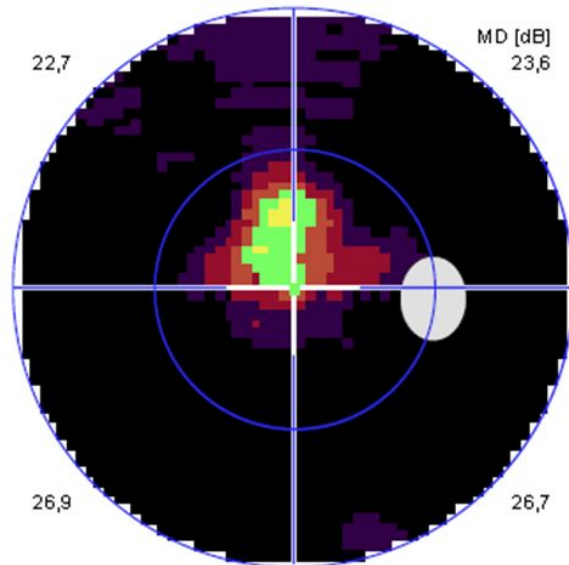


Case #1

Right eye (OD) / 02/20/2014 / 13:06:14

Seven-in-One

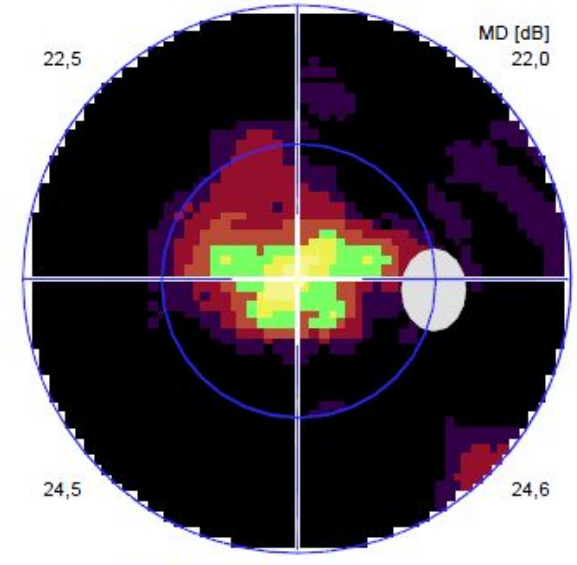
Greyscale (CO)



Right eye (OD) / 06/11/2014 / 14:21:03

Seven-in-One

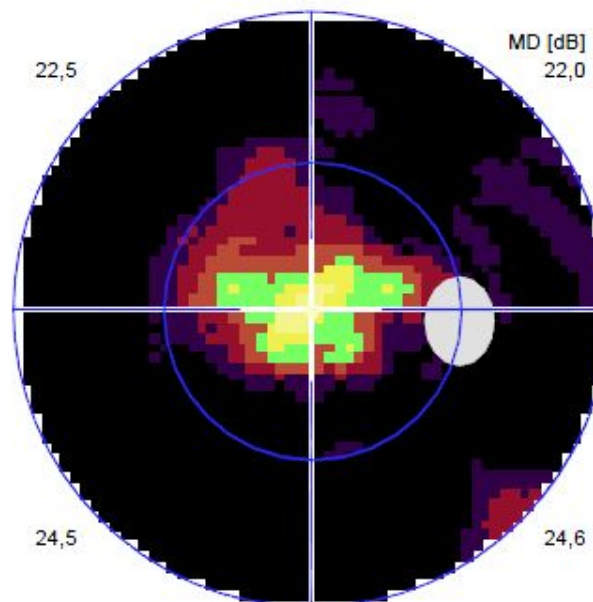
Greyscale (CO)



Right eye (OD) / 06/11/2014 / 14:21:03

Seven-in-One

Greyscale (CO)

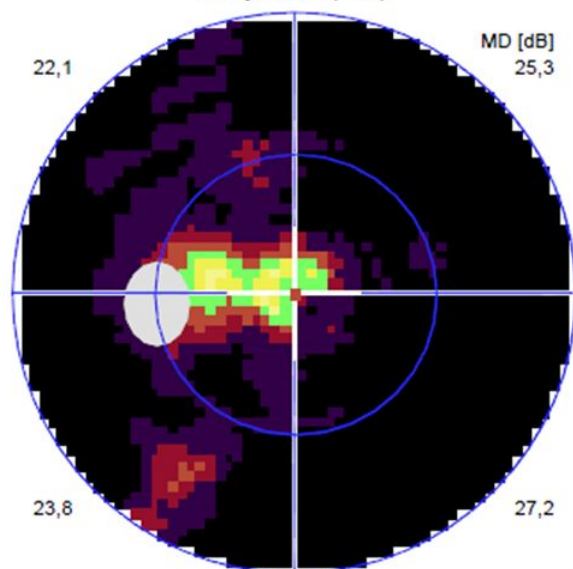


Case #1

Left eye (OS) / 02/20/2014 / 13:21:19

Seven-in-One

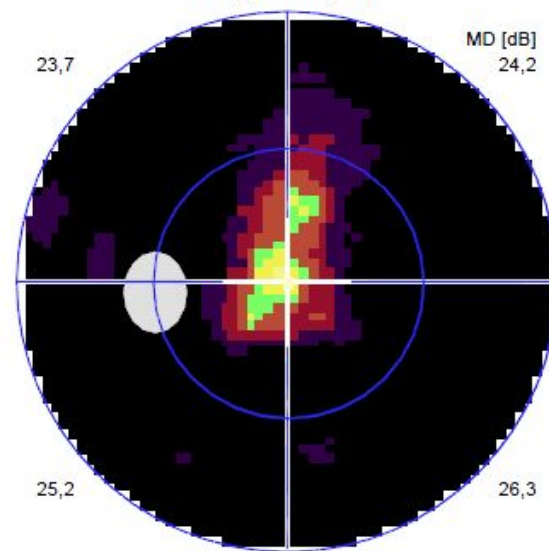
Greyscale (CO)



Left eye (OS) / 06/02/2014 / 11:47:19

Seven-in-One

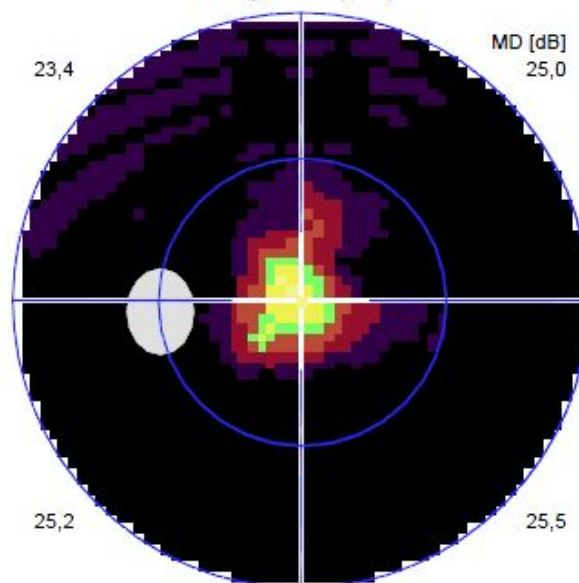
Greyscale (CO)



Left eye (OS) / 06/11/2014 / 14:38:31

Seven-in-One

Greyscale (CO)

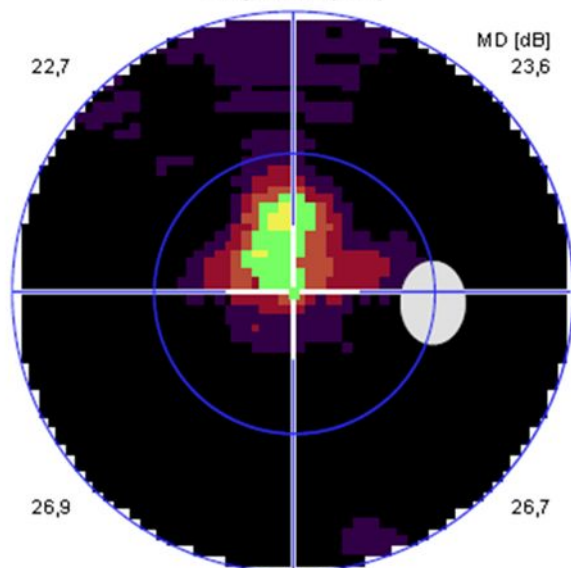


Case #1

Right eye (OD) / 02/20/2014 / 13:06:14

Seven-in-One

Greyscale (CO)



Conclusion

Results?

Improvement for the Right eye. Expansion of the central photosensitive area.

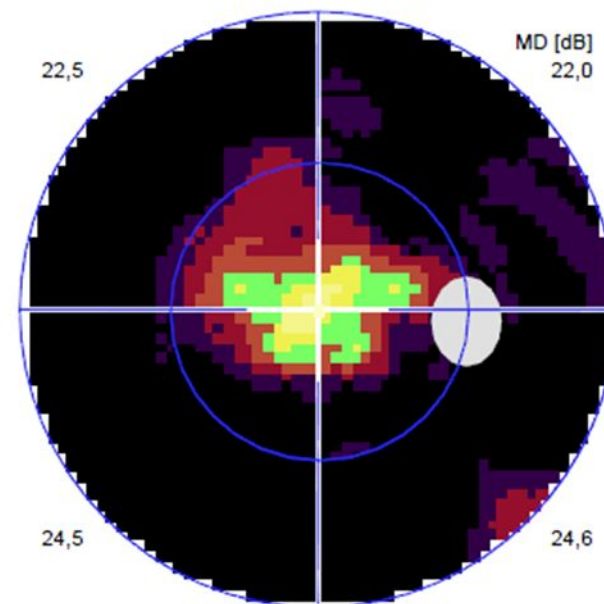
Visual acuity before treatment: RE 5/10 cc

Visual acuity after treatment : RE 5/10 cc

Right eye (OD) / 06/11/2014 / 14:21:03

Seven-in-One

Greyscale (CO)

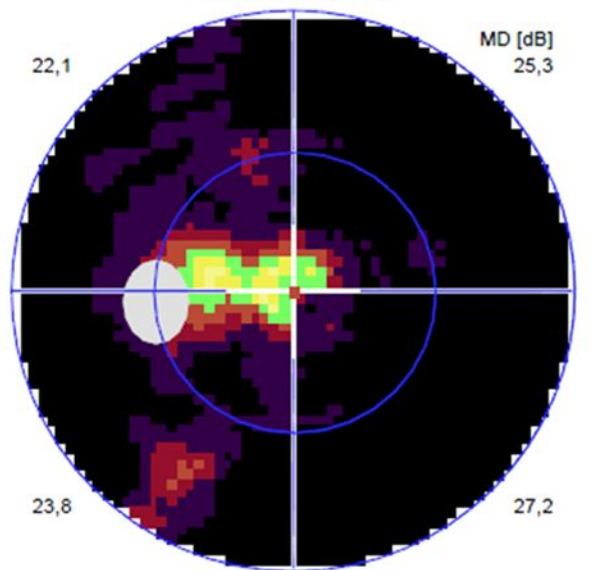


Case #1

Left eye (OS) / 02/20/2014 / 13:21:19

Seven-in-One

Greyscale (CO)



Conclusion

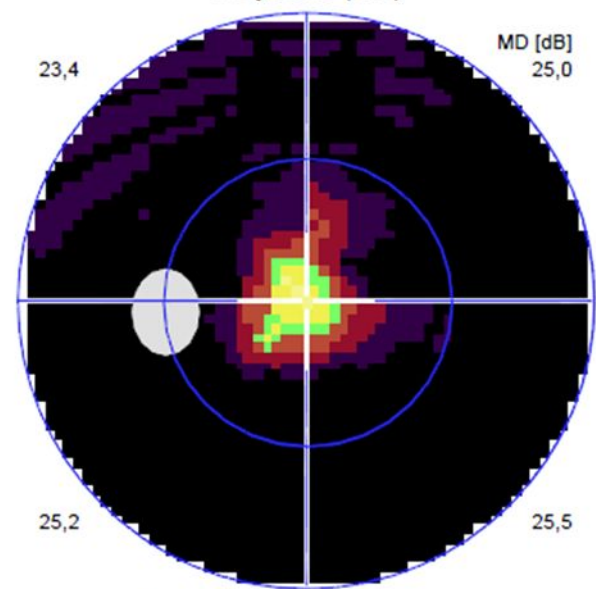
Results?

Stabilization for the Left eye.
Visual acuity before treatment: LE 5/10 cc
Visual acuity after treatment: LE 5/10 cc

Left eye (OS) / 06/11/2014 / 14:38:31

Seven-in-One

Greyscale (CO)



Case #1

Case #2

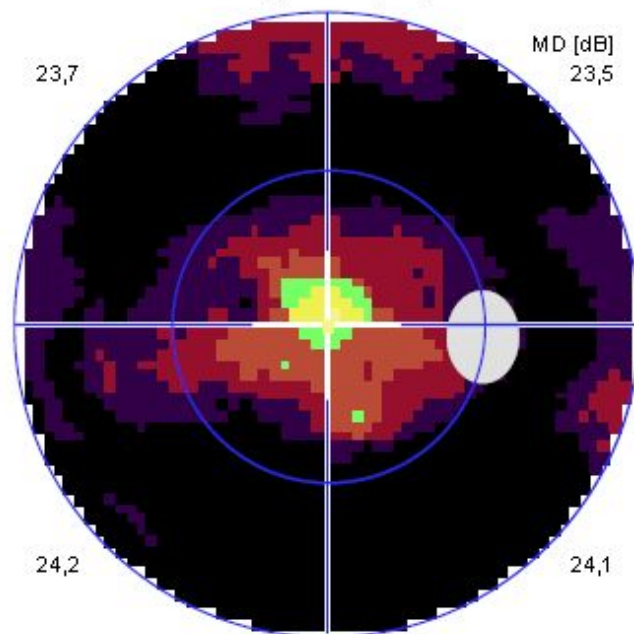
- Male patient
- 17 years old
- Pathology: Retinitis pigmentosa
- Visual acuity before treatment:
RE: 6/10 cc
LE: 6/10 cc
- First visit: January 2014

Visual fields pre-treatment

Right eye (OD) / 01/27/2014 / 12:16:56

Seven-in-One

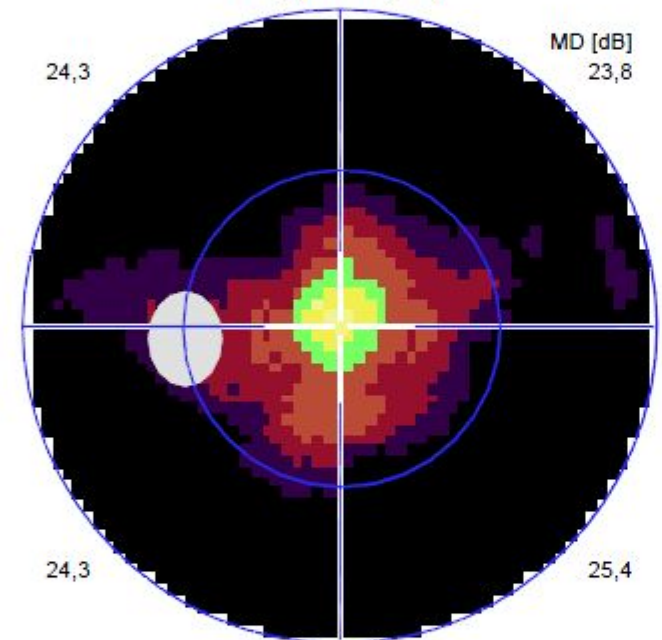
Greyscale (CO)



Left eye (OS) / 01/27/2014 / 12:27:56

Seven-in-One

Greyscale (CO)



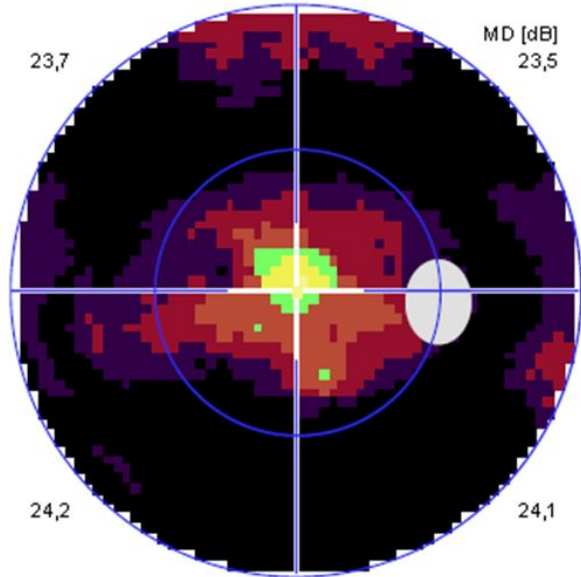
Case #2

Visual fields after 10 days

Right eye (OD) / 01/27/2014 / 12:16:56

Seven-in-One

Greyscale (CO)

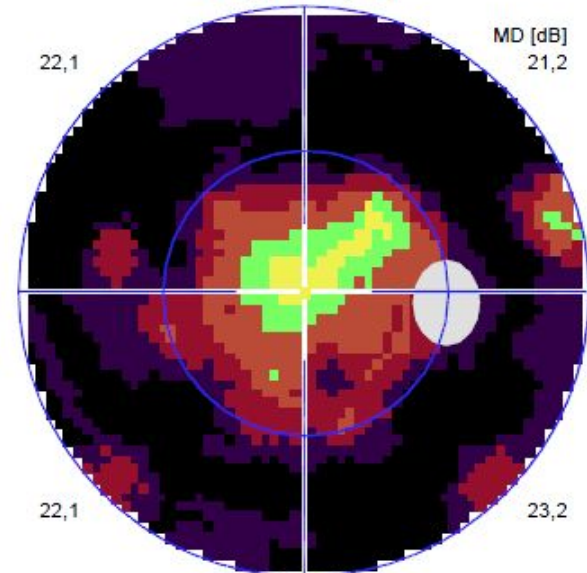


Visual acuity RE: 6/10 cc

Right eye (OD) / 02/18/2014 / 13:12:59

Seven-in-One

Greyscale (CO)



Visual acuity RE: 7/10 cc

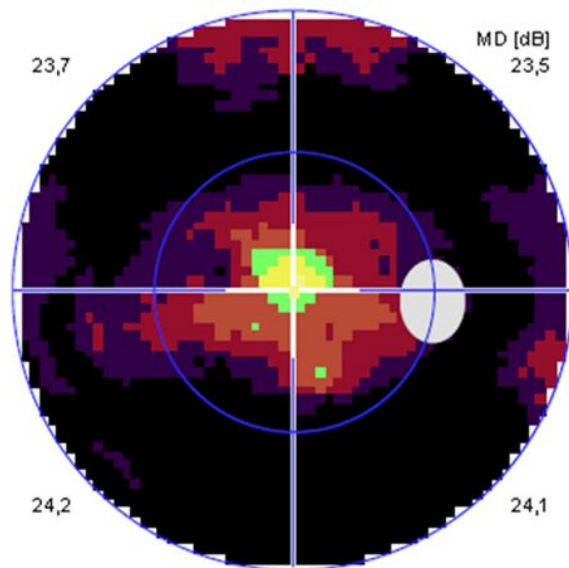
Case #2

Visual fields post treatment (35 days from the beginning)

Right eye (OD) / 01/27/2014 / 12:16:56

Seven-in-One

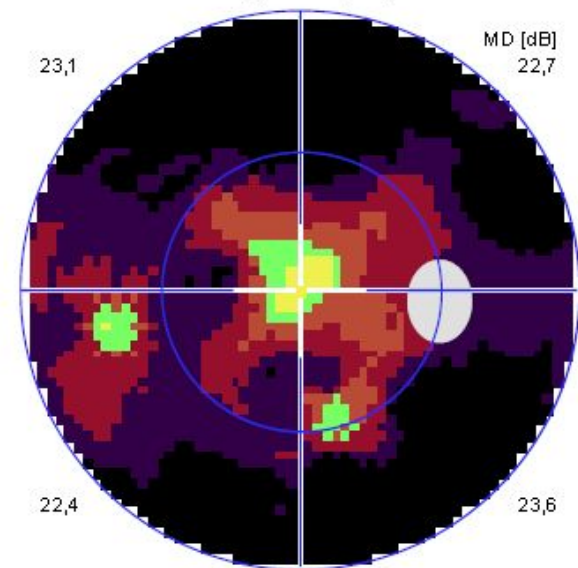
Greyscale (CO)



Right eye (OD) / 03/04/2014 / 15:12:14

Seven-in-One

Greyscale (CO)

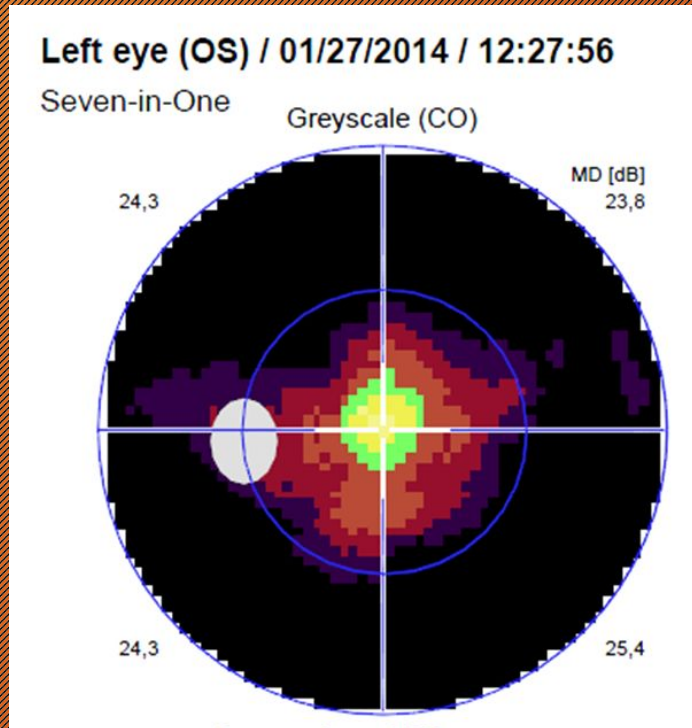


Visual acuity RE: 7/10 cc

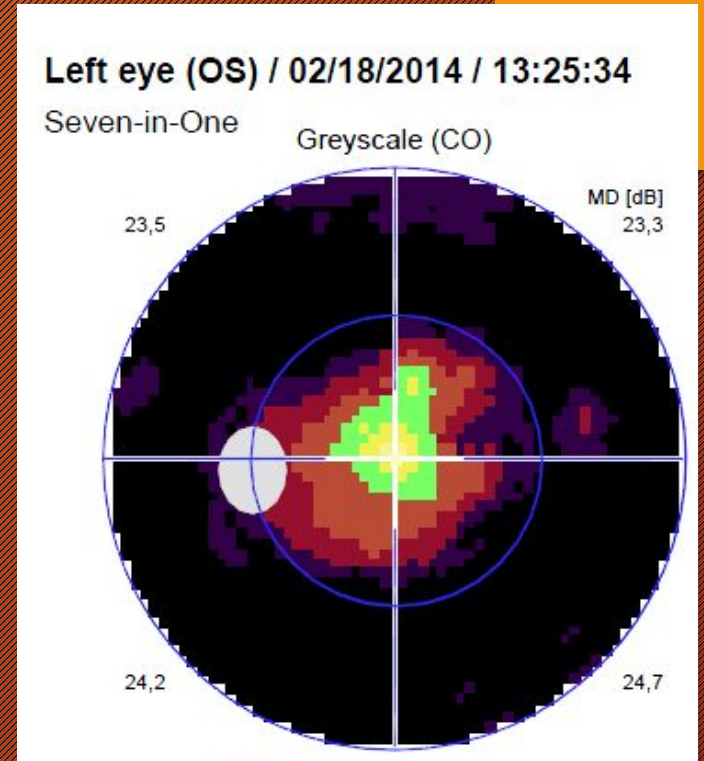
Visual acuity RE: 7/10 cc

Case #2

Visual fields after 10 days



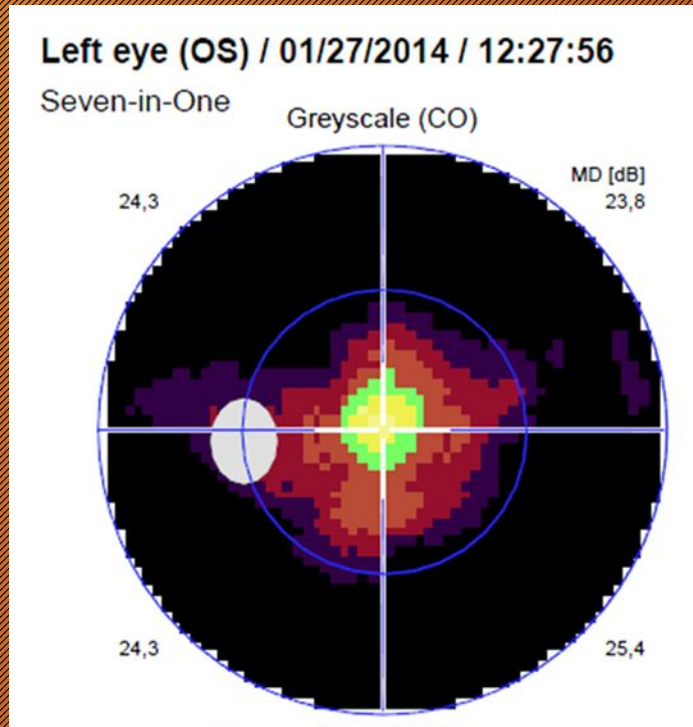
Visual acuity LE: 6/10 cc



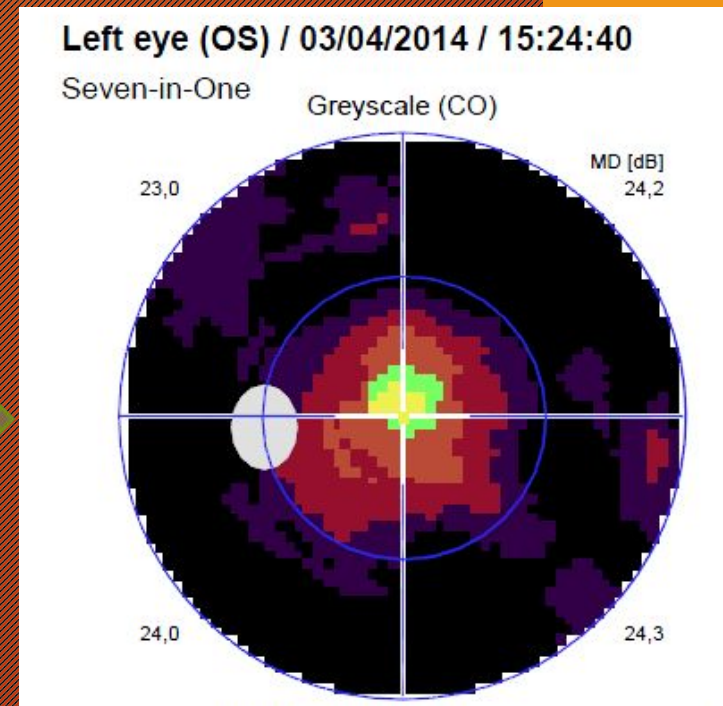
Visual acuity LE: 7/10 cc

Case #2

Visual fields post-Treatment (35 days from the beginning)



Visual acuity LE: 7/10 cc



Visual acuity LE: 7/10 cc

Case #2

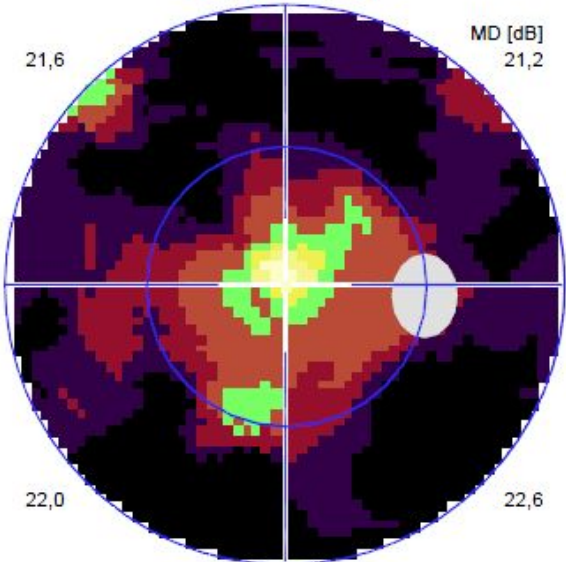
Patient received a second round of therapy in July 2014.

- Visual acuity RE: 7/10 cc
LE: 7/10 cc

Right eye (OD) / 07/25/2014 / 11:58:28

Seven-in-One

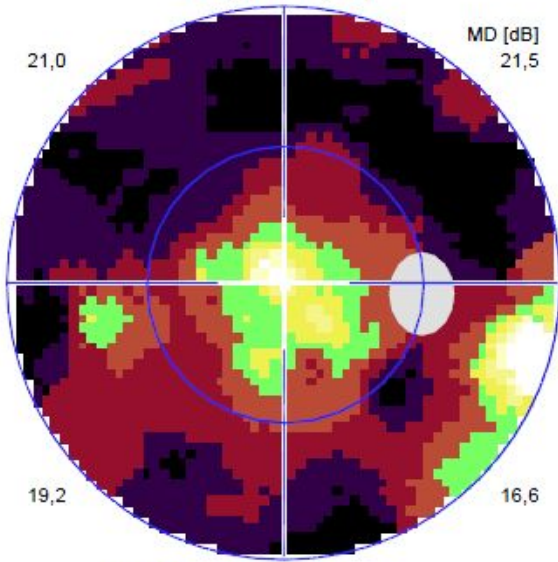
Greyscale (CO)



Right eye (OD) / 08/11/2014 / 12:25:45

Seven-in-One

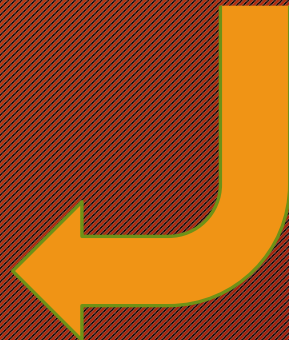
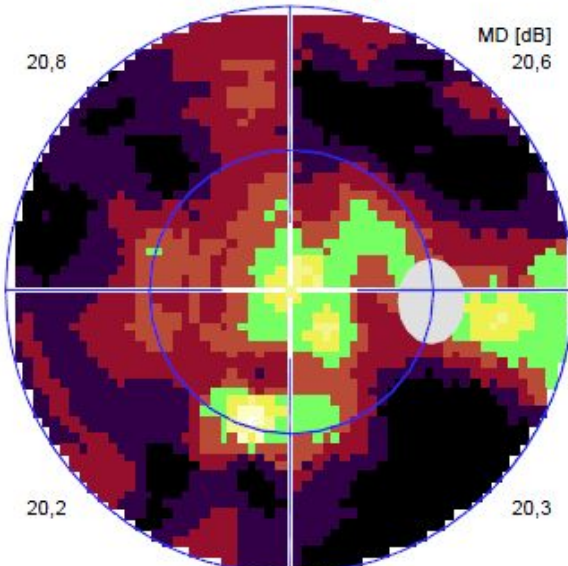
Greyscale (CO)



Right eye (OD) / 09/02/2014 / 14:48:19

Seven-in-One

Greyscale (CO)



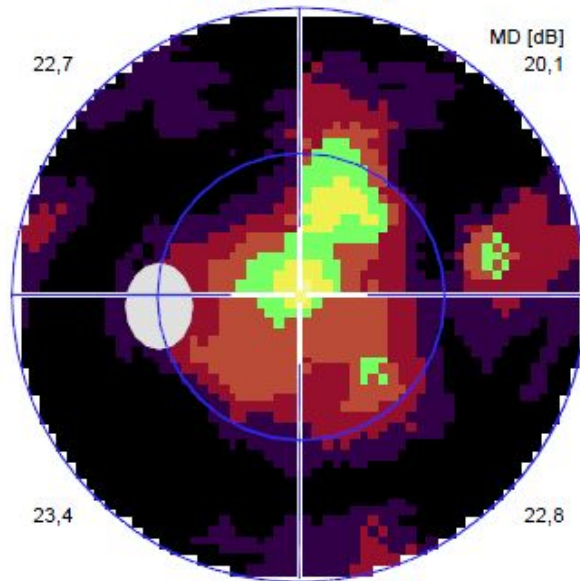
Visual acuity RE: 7/10 cc

Case #2

Left eye (OS) / 07/25/2014 / 12:14:04

Seven-in-One

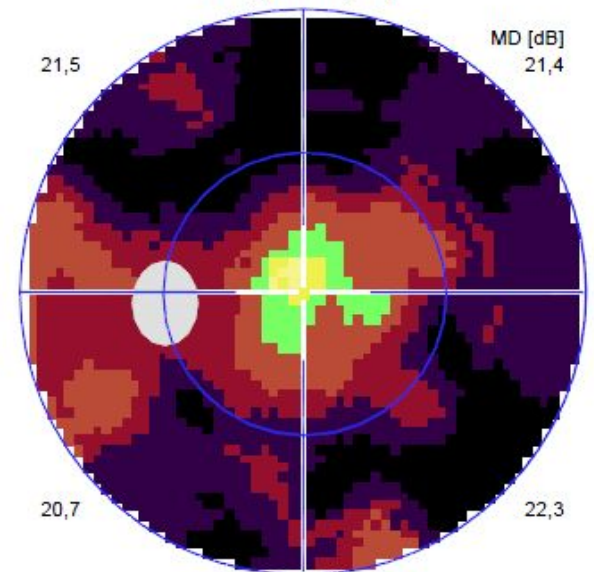
Greyscale (CO)



Left eye (OS) / 08/11/2014 / 12:11:28

Seven-in-One

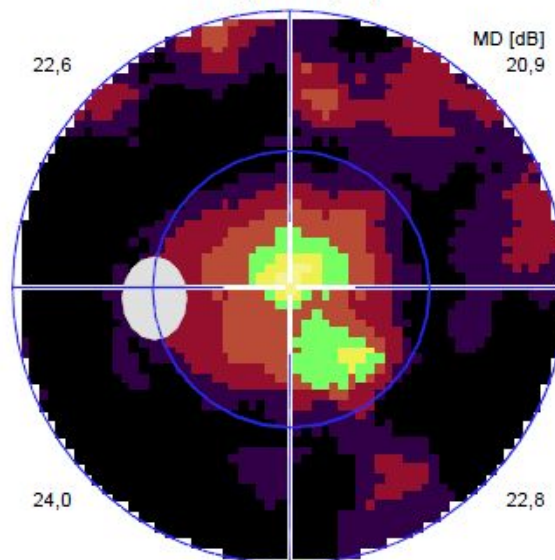
Greyscale (CO)



Left eye (OS) / 09/02/2014 / 15:04:03

Seven-in-One

Greyscale (CO)



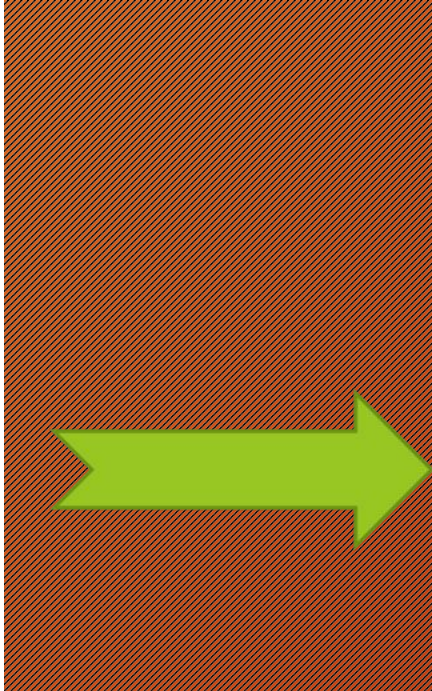
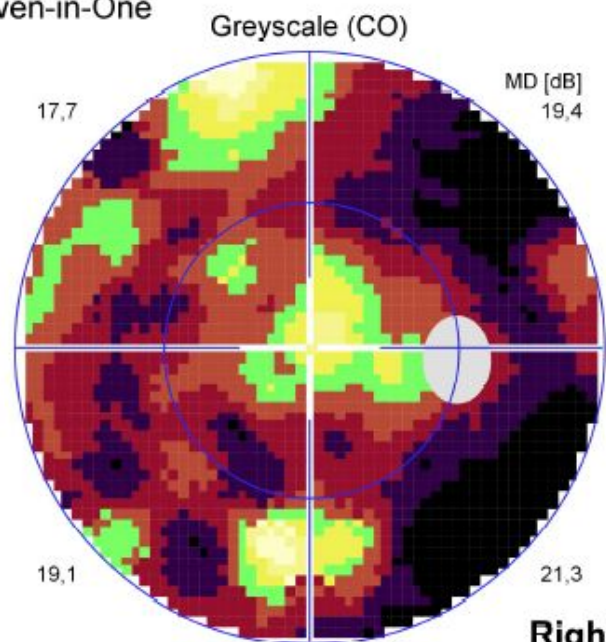
Visual acuity LE: 7/10 cc

Case #2

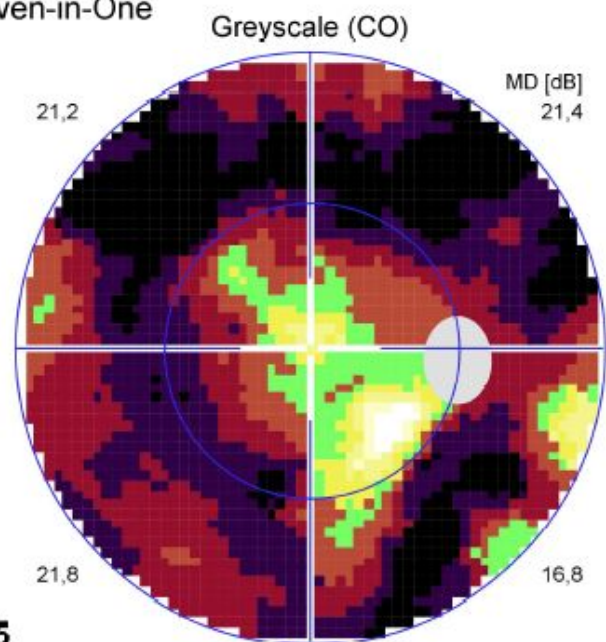
Patient received a third round of therapy in February 2015

- Visual acuity RE: 7/10 cc
LE: 7/10 cc

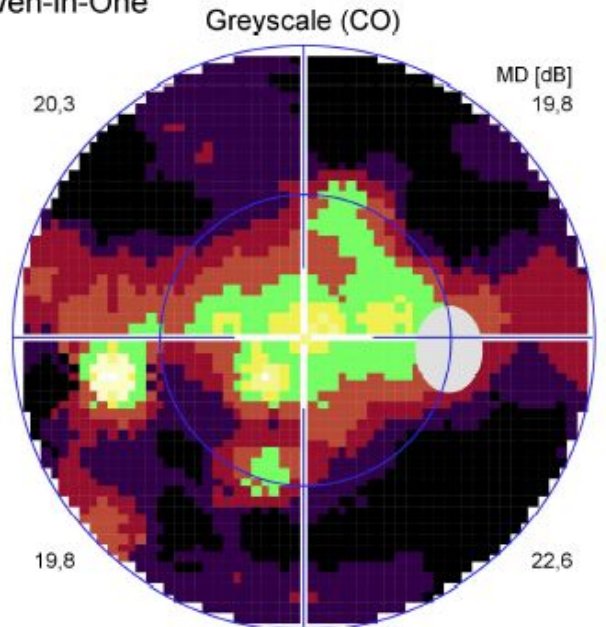
Right eye (OD) / 02/05/2015 / 11:57:10
Seven-in-One



Right eye (OD) / 03/09/2015 / 10:49:47
Seven-in-One



Right eye (OD) / 04/15/2015 / 13:25:15
Seven-in-One



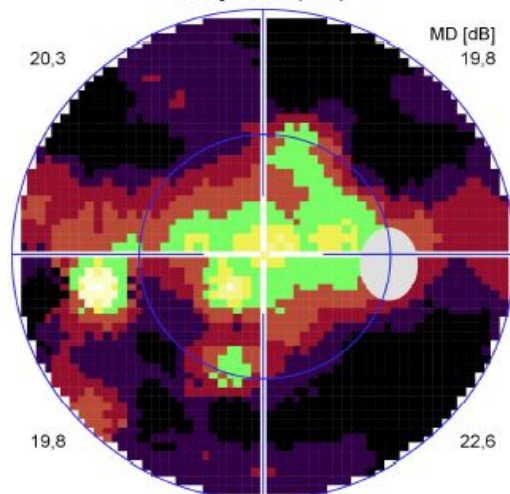
Case #2

Visual acuity RE: 7/10 cc

Right eye (OD) / 04/15/2015 / 13:25:15

Seven-in-One

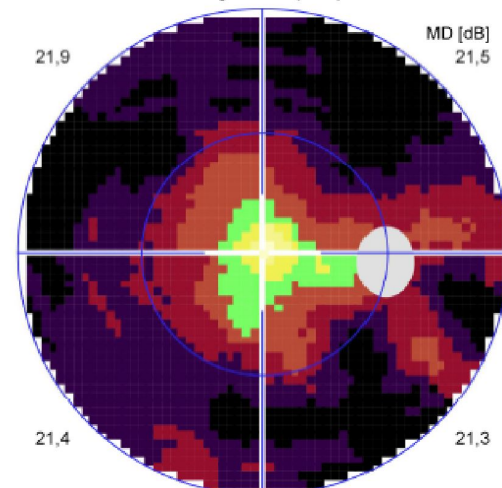
Greyscale (CO)



Right eye (OD) / 08/03/2015 / 11:19:12

Seven-in-One

Greyscale (CO)

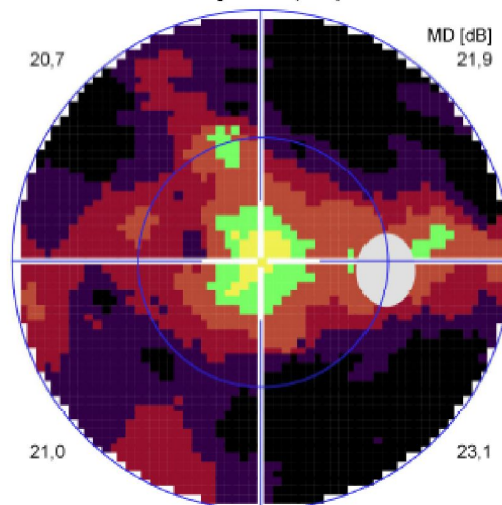


Visual acuity RE: 7/10 cc

Right eye (OD) / 02/15/2016 / 10:08:29

Seven-in-One

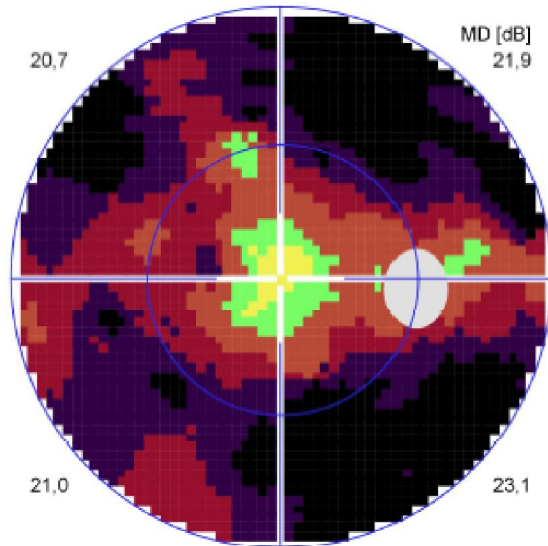
Greyscale (CO)



Right eye (OD) / 02/15/2016 / 10:08:29

Seven-in-One

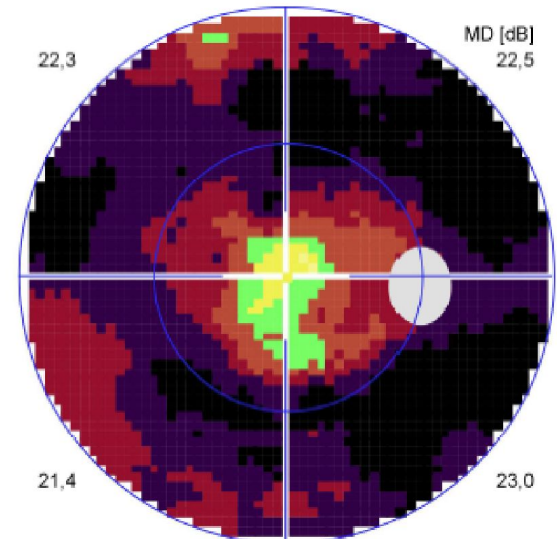
Greyscale (CO)



Right eye (OD) / 02/22/2016 / 10:55:59

Seven-in-One

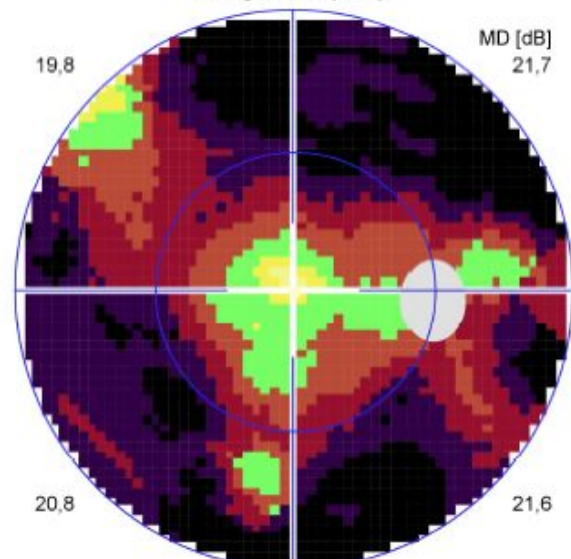
Greyscale (CO)



Right eye (OD) / 07/22/2016 / 14:05:45

Seven-in-One

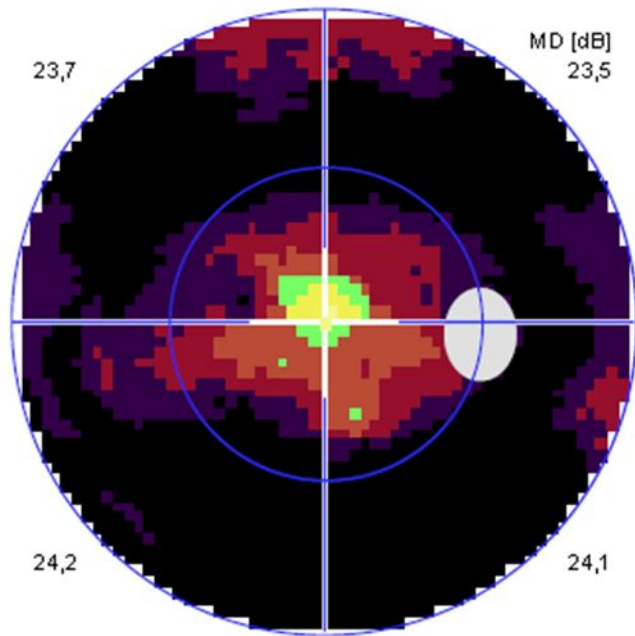
Greyscale (CO)



Right eye (OD) / 01/27/2014 / 12:16:56

Seven-in-One

Greyscale (CO)



Conclusion

Results?

Improvement for the Right eye. Expansion of the central photosensitive area.

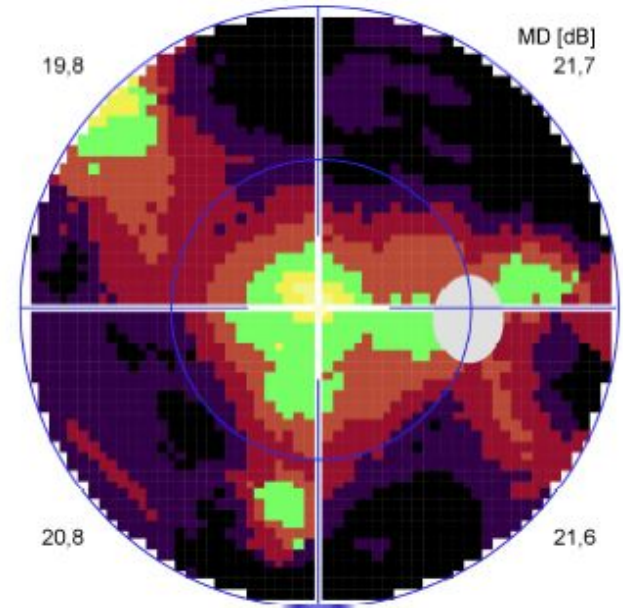
Visual acuity before any treatment: 6/10 cc.

Visual acuity after 2 rounds of treatment:
7/10cc.

Right eye (OD) / 07/22/2016 / 14:05:45

Seven-in-One

Greyscale (CO)

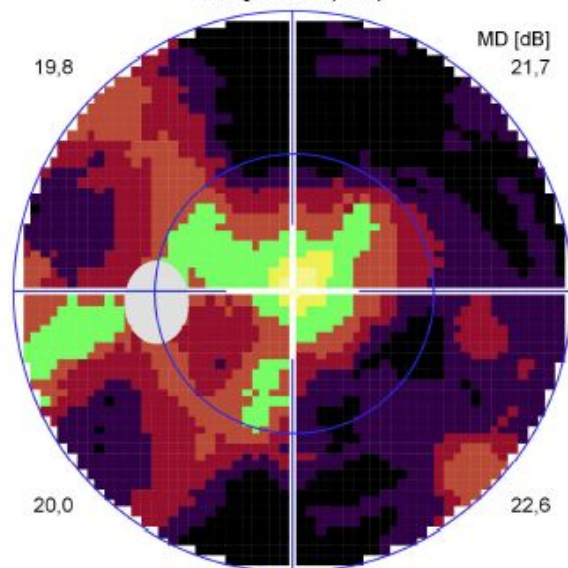


Case #2

Left eye (OS) / 02/05/2015 / 12:10:12

Seven-in-One

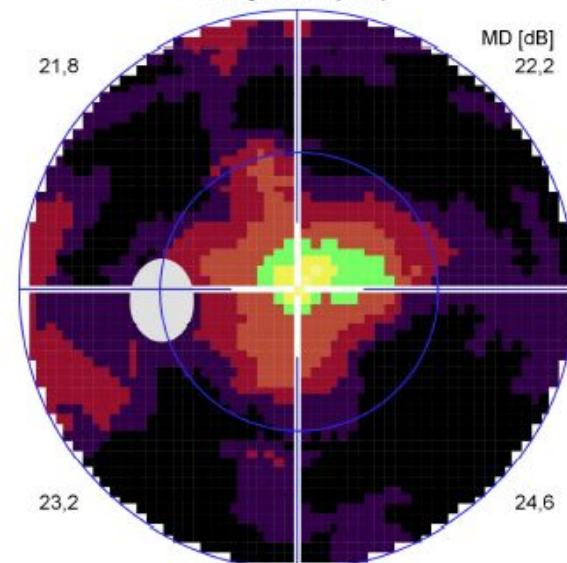
Greyscale (CO)



Left eye (OS) / 03/09/2015 / 11:09:39

Seven-in-One

Greyscale (CO)

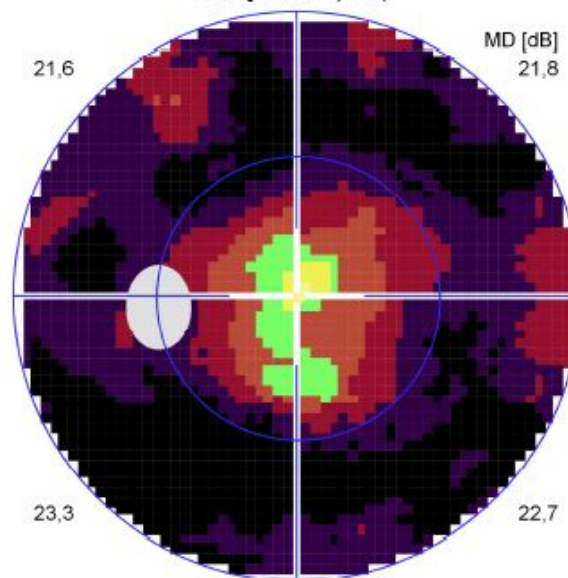


Visual acuity LE: 7/10 cc

Left eye (OS) / 04/15/2015 / 13:37:28

Seven-in-One

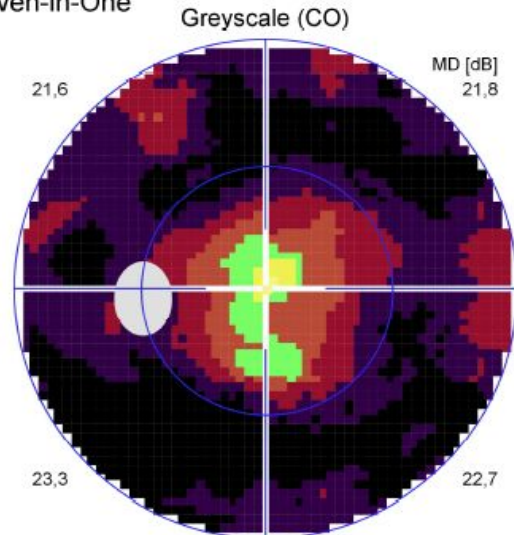
Greyscale (CO)



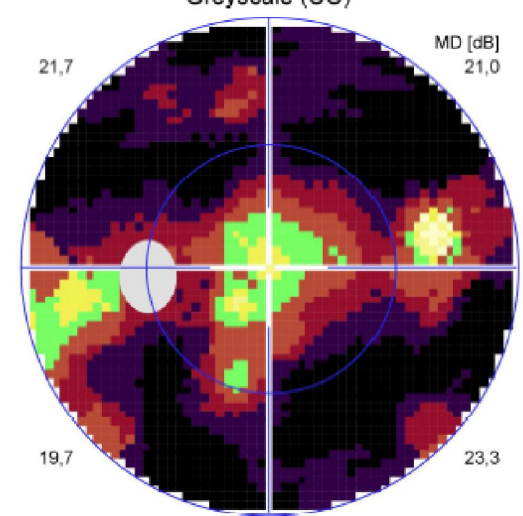
Case #2

Visual acuity LE:
7/10 cc

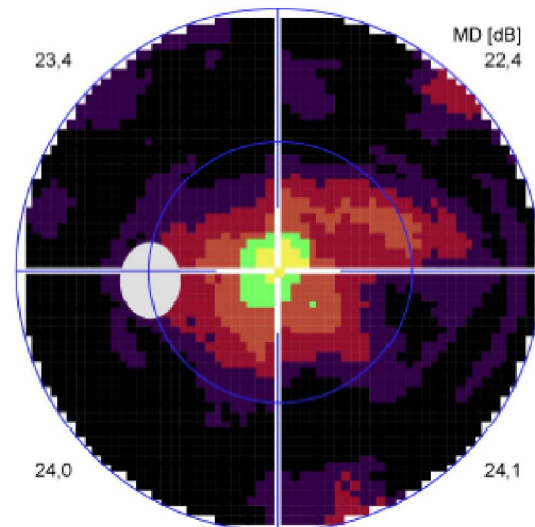
Left eye (OS) / 04/15/2015 / 13:37:28
Seven-in-One



Left eye (OS) / 08/03/2015 / 11:05:51
Seven-in-One



Left eye (OS) / 02/15/2016 / 10:18:50
Seven-in-One

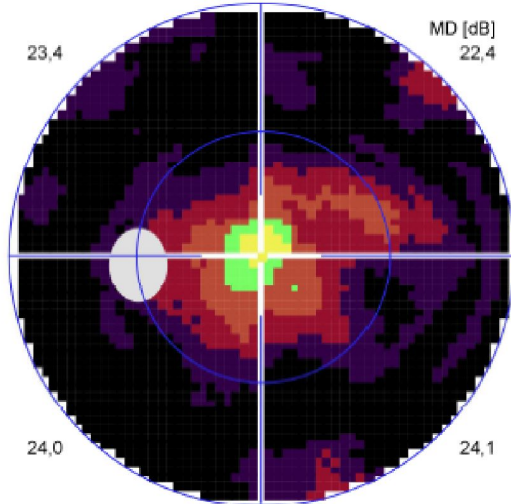


Case #2

Left eye (OS) / 02/15/2016 / 10:18:50

Seven-in-One

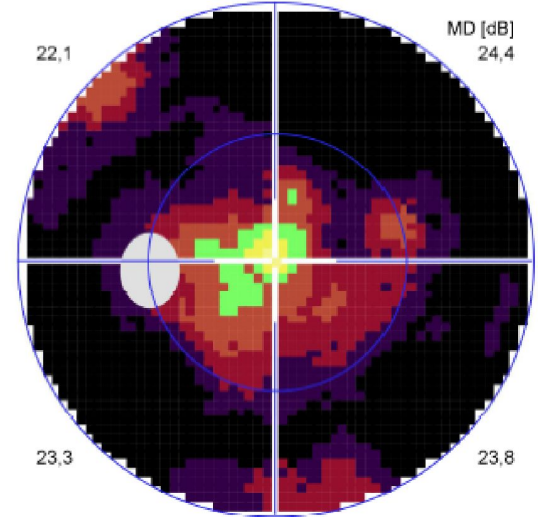
Greyscale (CO)



Left eye (OS) / 02/22/2016 / 11:05:40

Seven-in-One

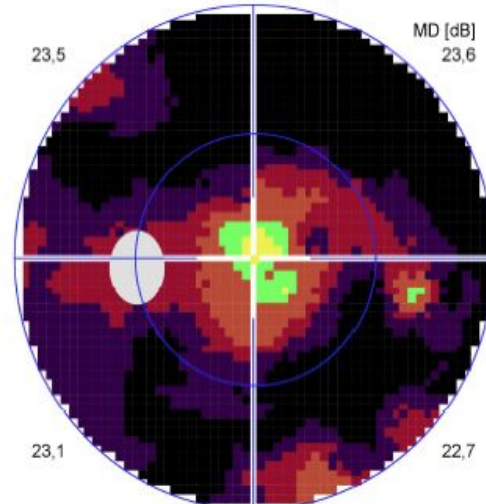
Greyscale (CO)



Left eye (OS) / 07/22/2016 / 14:15:32

Seven-in-One

Greyscale (CO)

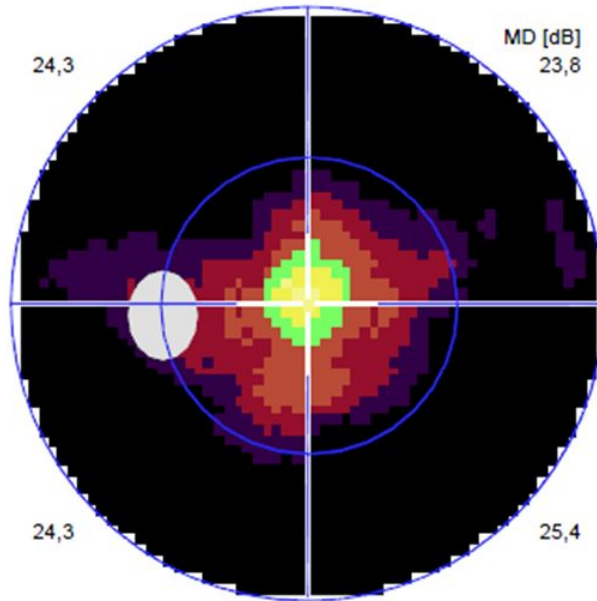


Case #2

Left eye (OS) / 01/27/2014 / 12:27:56

Seven-in-One

Greyscale (CO)



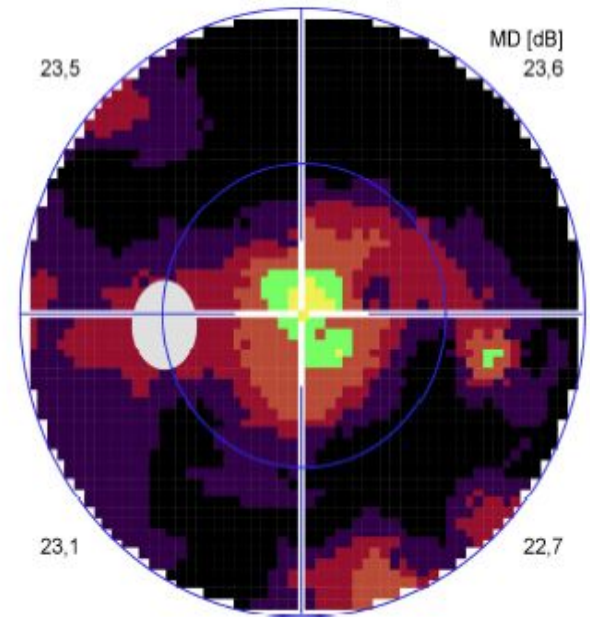
Conclusion



Left eye (OS) / 07/22/2016 / 14:15:32

Seven-in-One

Greyscale (CO)



Results?

Improvement for the left eye. Expansion of the central photosensitive area.

Visual acuity before any treatment: 6/10 cc.

Visual acuity after 2 rounds of treatment: 7/10 cc.

Case #2

Case #3

- Female patient
- 64 years old
- Pathology: Retinitis pigmentosa
- Visual acuity before treatment:
RE blind
LE: 4/10 cc
- First visit: May 2014

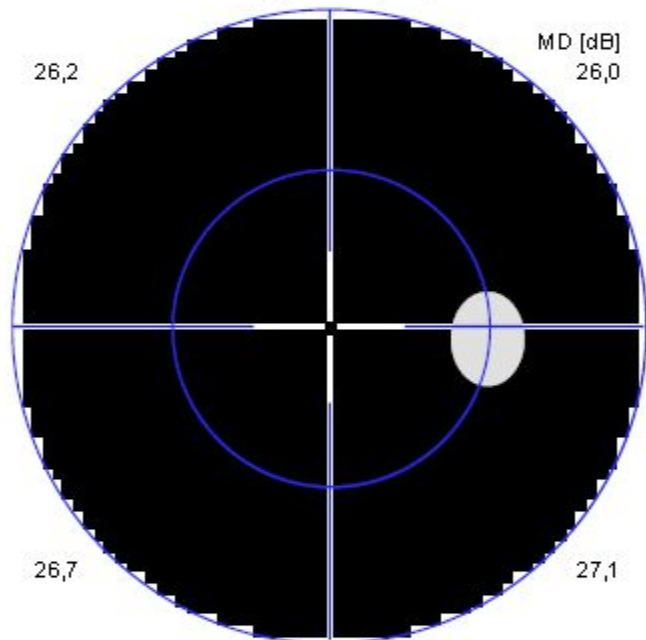
Pre-treatment

Post treatment

Right eye (OD) / 05/22/2014 / 13:56:57

Seven-in-One

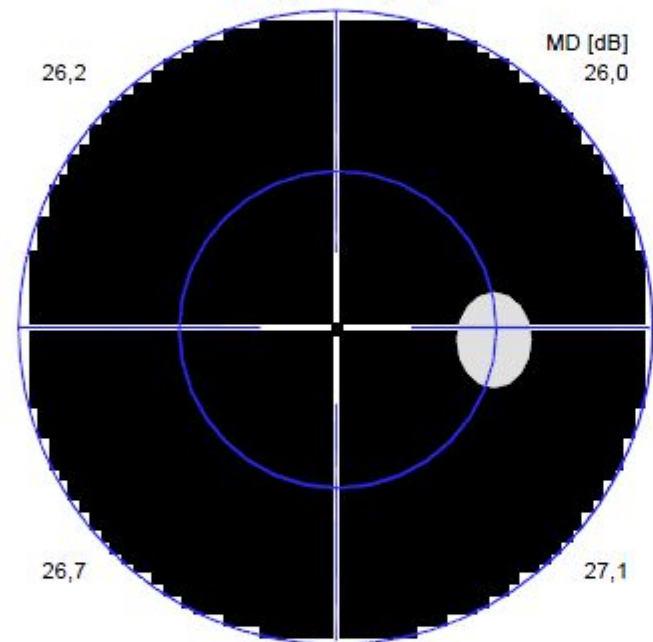
Greyscale (CO)



Right eye (OD) / 09/09/2014 / 13:24:53

Seven-in-One

Greyscale (CO)



Case #3

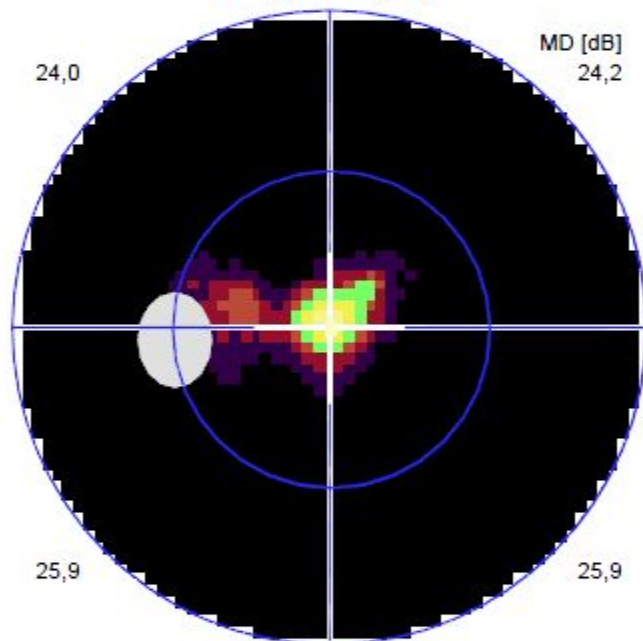
Pre-treatment
VA 4/10 cc

Post treatment
VA 4-5/10 cc

Left eye (OS) / 05/22/2014 / 14:04:39

Seven-in-One

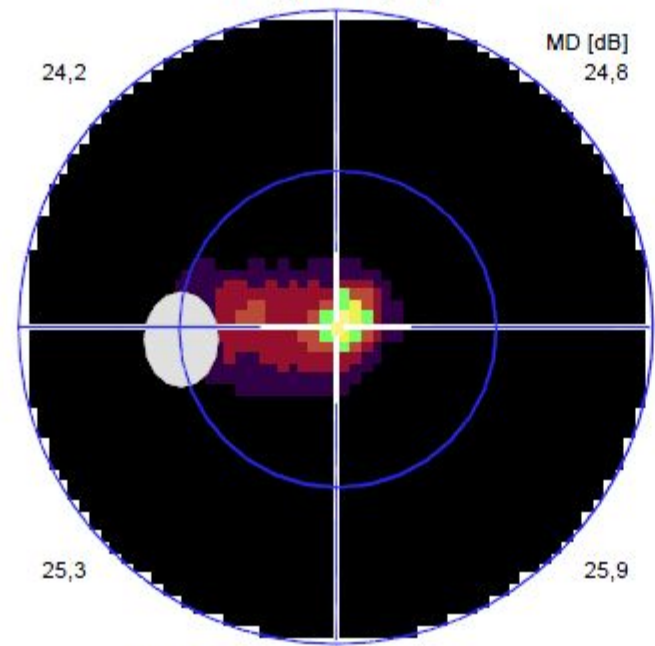
Greyscale (CO)



Left eye (OS) / 09/09/2014 / 13:29:28

Seven-in-One

Greyscale (CO)



Results?

Stabilization. Expansion of the central photosensitive area.

Case #3

Case #4

- Male patient
- 33 years old
- Pathology: Retinitis pigmentosa
- Visual acuity before treatment
RE: 7/10 cc
LE: 3/10 cc
- First visit: October 2013

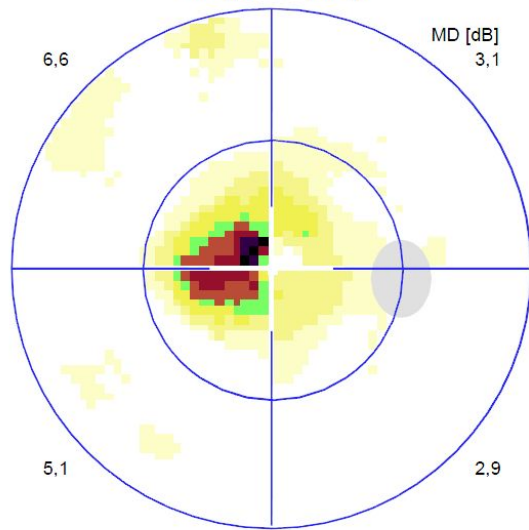
Visual fields pre treatment

Right eye (OD) / 10/20/2013 / 14:56:53

Seven-in-One

Greyscale (CO)

MD [dB]
3,1

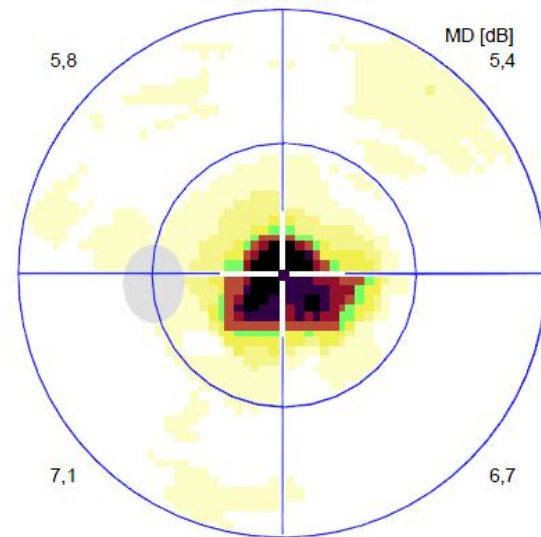


Left eye (OS) / 10/20/2013 / 15:12:21

Seven-in-One

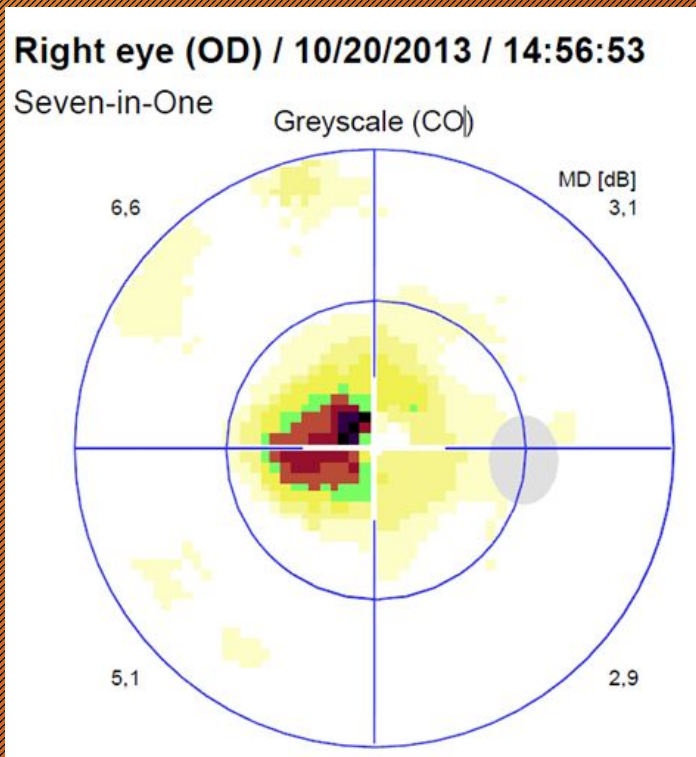
Greyscale (CO)

MD [dB]
5,4

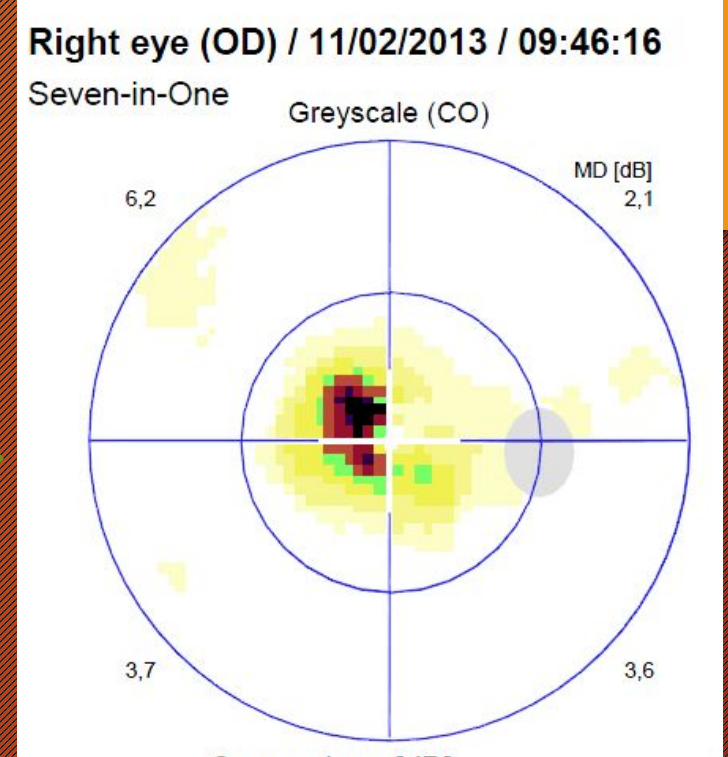


Case #4

Visual fields after 10 days



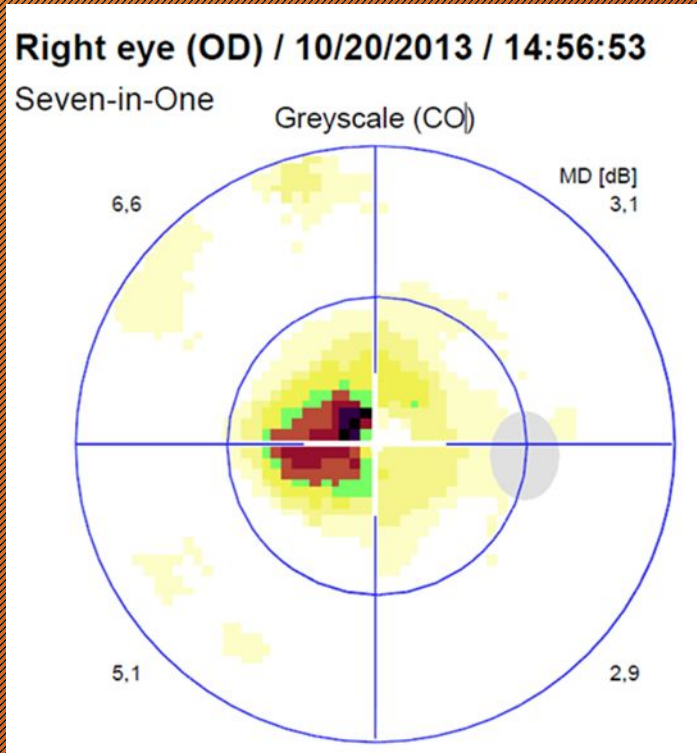
Visual acuity RE: 7/10 cc



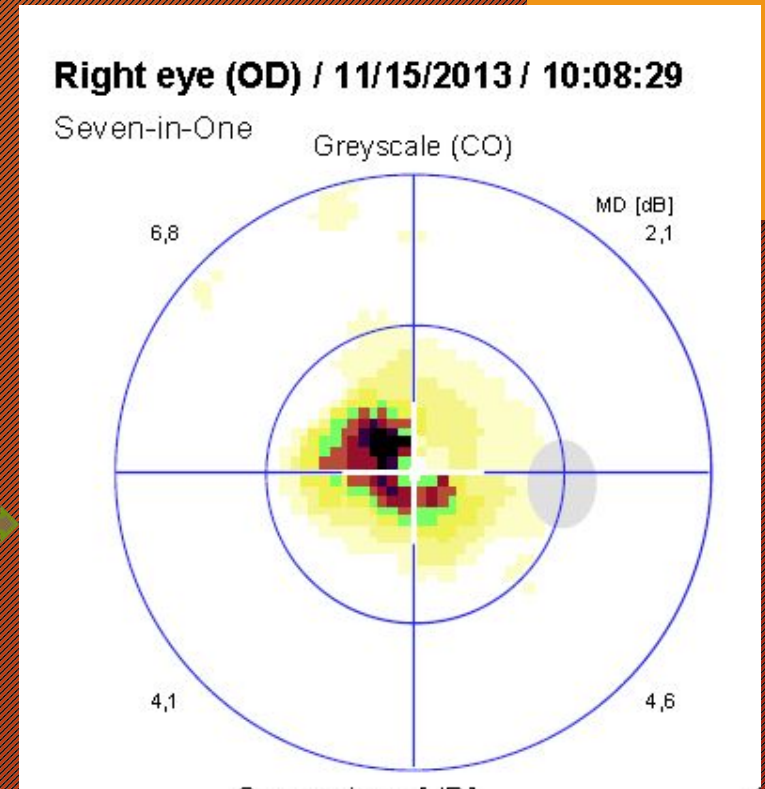
Visual acuity RE: 8/10 cc

Case #4

Visual fields post treatment (20 days from the beginning)



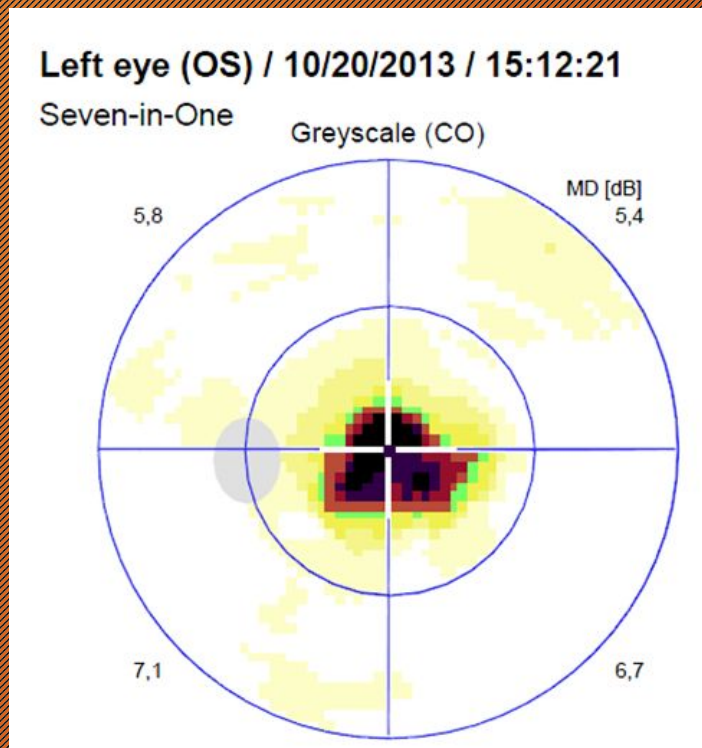
Visual acuity LE: 7/10 cc



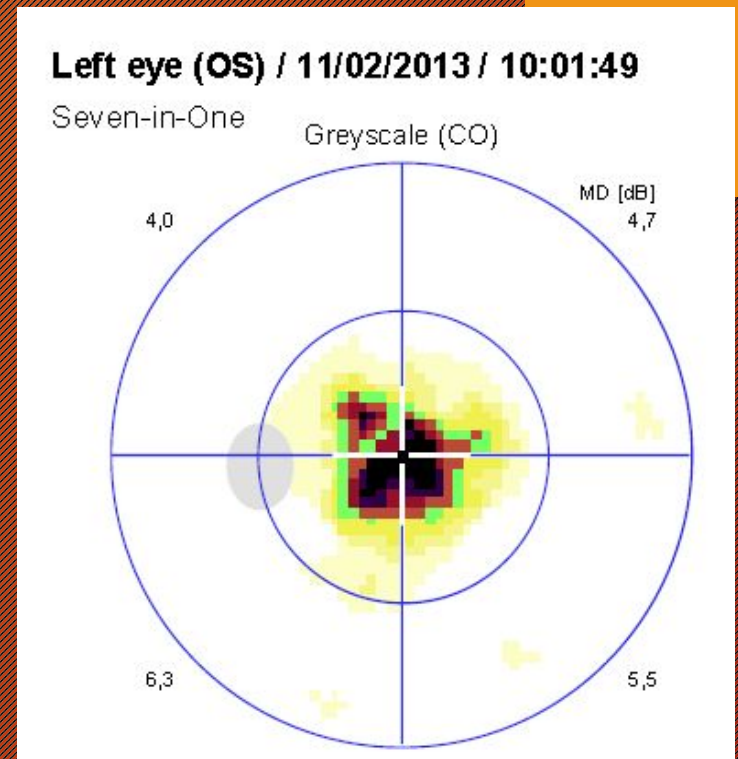
Visual acuity RE: 8/10 cc

Case #4

Visual Fields after 10 days



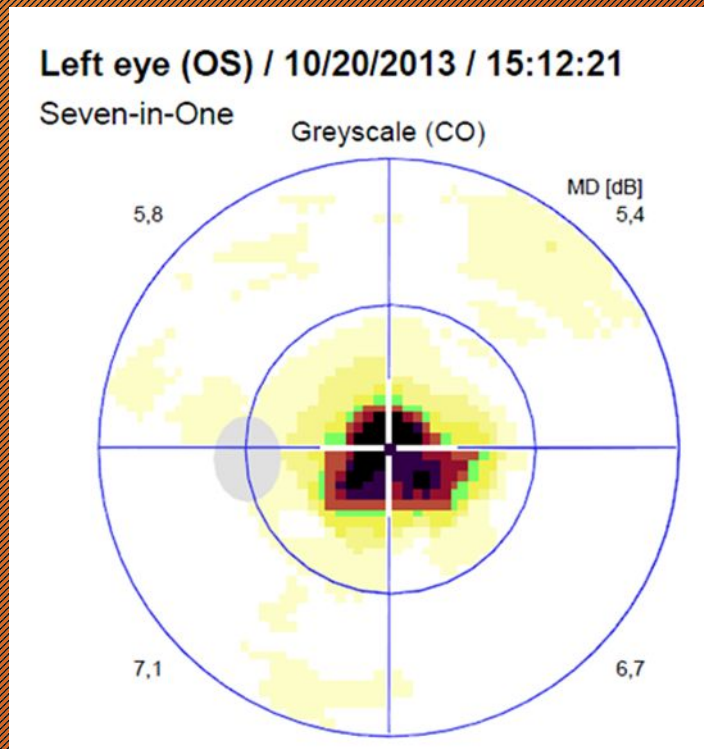
Visual acuity LE: 3/10 cc



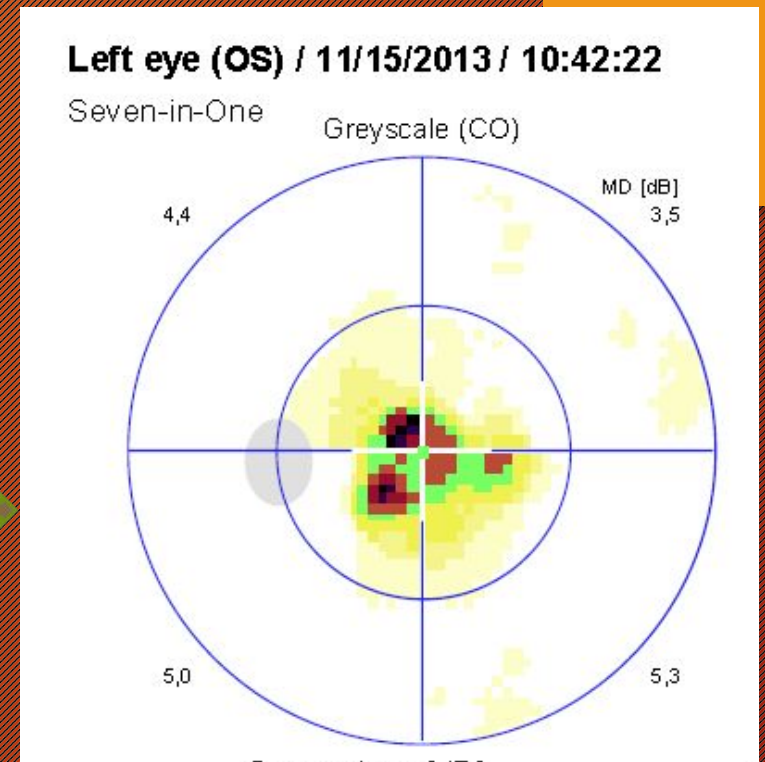
Visual acuity LE: 3/10 cc

Case #4

Visual Fields post-Treatment (20 days from the beginning)



Visual acuity LE: 3/10 cc



Visual acuity LE: 5/10 cc

Case #4

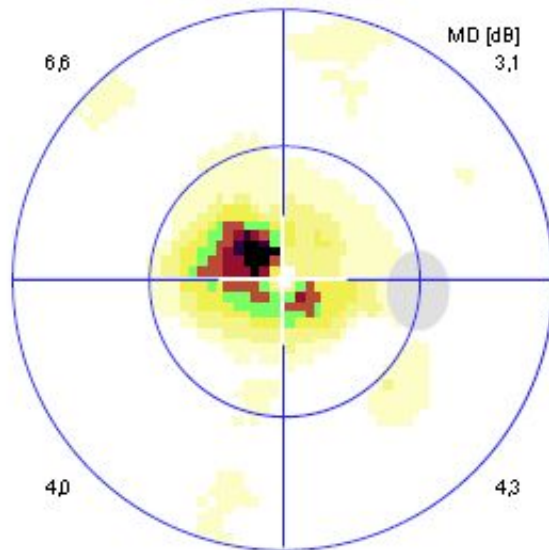
Patient received a second round of therapy in February 2014.

- Visual acuity RE: 8/10 cc
LE: 5/10 cc

Right eye (OD) / 02/14/2014 / 13:24:21

Seven-in-One

Greyscale (CO)

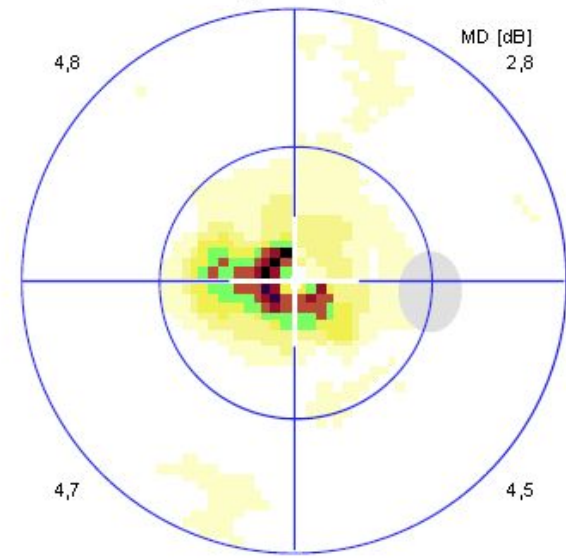


Visual acuity RE: 8/10 cc

Right eye (OD) / 02/28/2014 / 13:41:40

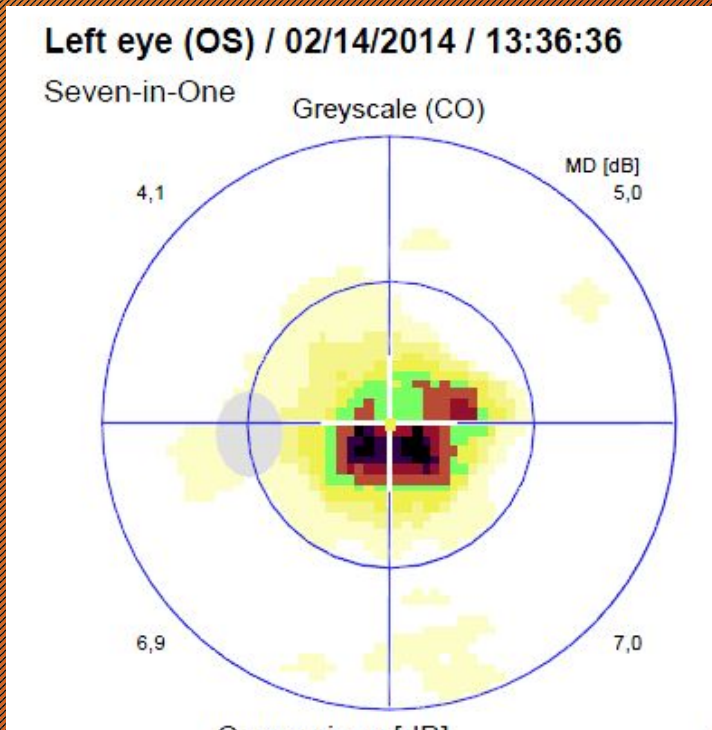
Seven-in-One

Greyscale (CO)

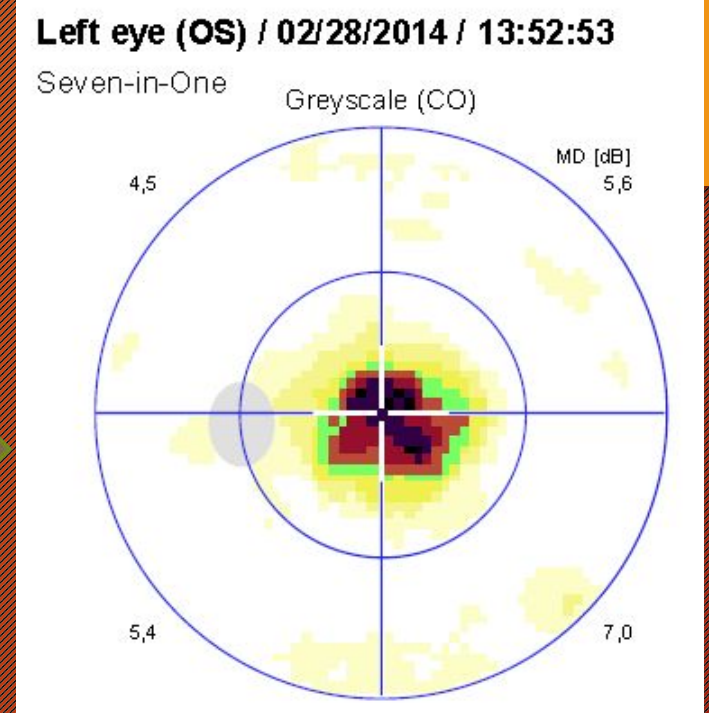


Visual acuity RE: 9/10 cc

Case #4



Visual acuity LE: 5/10 cc



Visual acuity LE: 5/10 cc

Case #4

Patient received a third round of therapy in June 2014

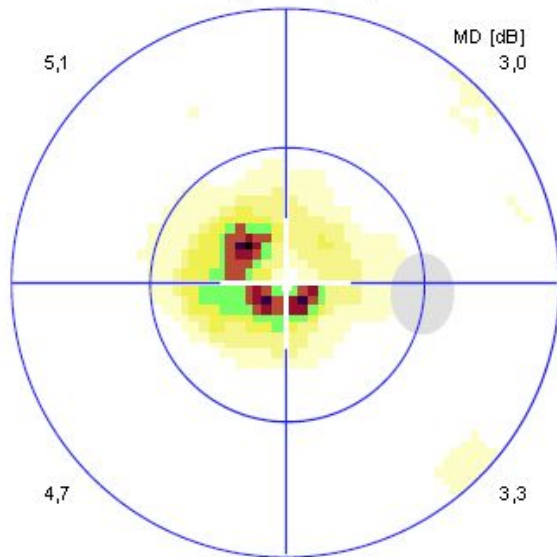
- Visual acuity RE: 9/10 cc
LE: 5/10 cc

Right eye (OD) / 06/04/2014 / 12:00:22

Seven-in-One

Greyscale (CO)

MD [dB]
3,0

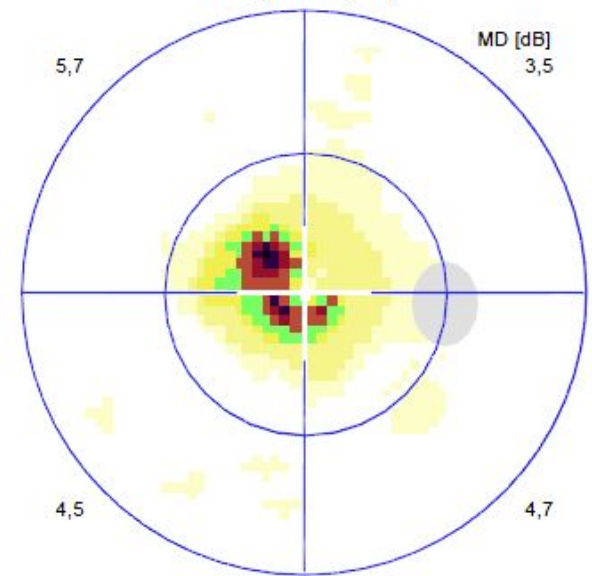


Right eye (OD) / 06/17/2014 / 08:46:10

Seven-in-One

Greyscale (CO)

MD [dB]
3,5



Visual acuity RE: 9/10 cc

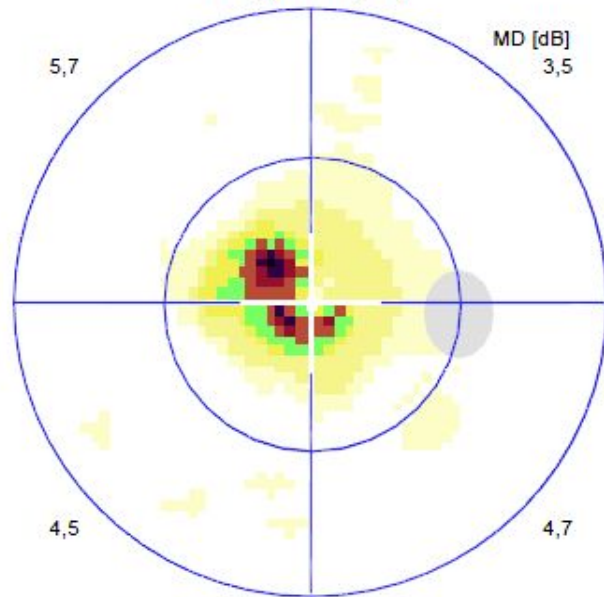
Case #4

Right eye (OD) / 06/17/2014 / 08:46:10

Seven-in-One

Greyscale (CO)

MD [dB]
3,5

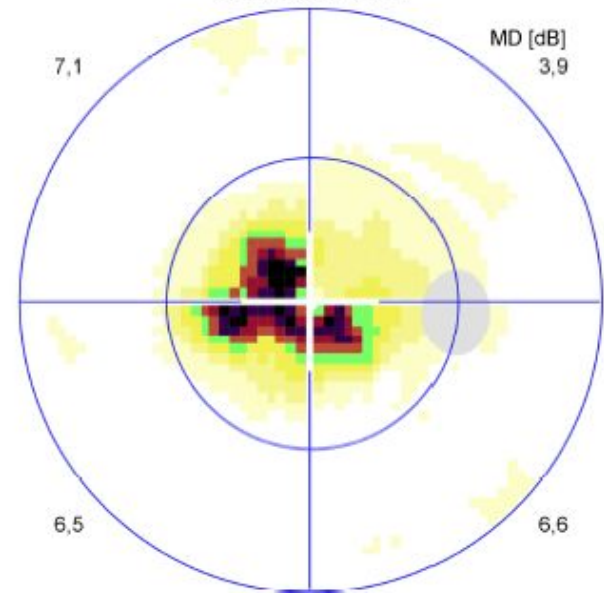


Right eye (OD) / 01/18/2016 / 13:52:56

Seven-in-One

Greyscale (CO)

MD [dB]
3,9



Visual acuity RE: 9/10 cc

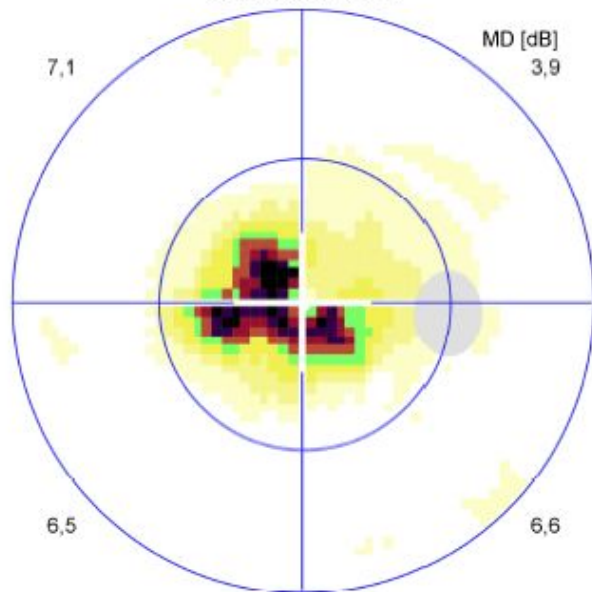
Case #4

Right eye (OD) / 01/18/2016 / 13:52:56

Seven-in-One

Greyscale (CO)

MD [dB]
3,9

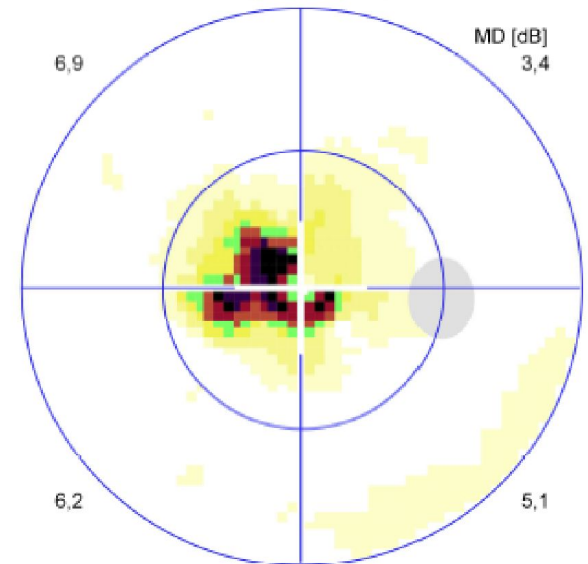


Right eye (OD) / 01/23/2016 / 09:50:30

Seven-in-One

Greyscale (CO)

MD [dB]
3,4

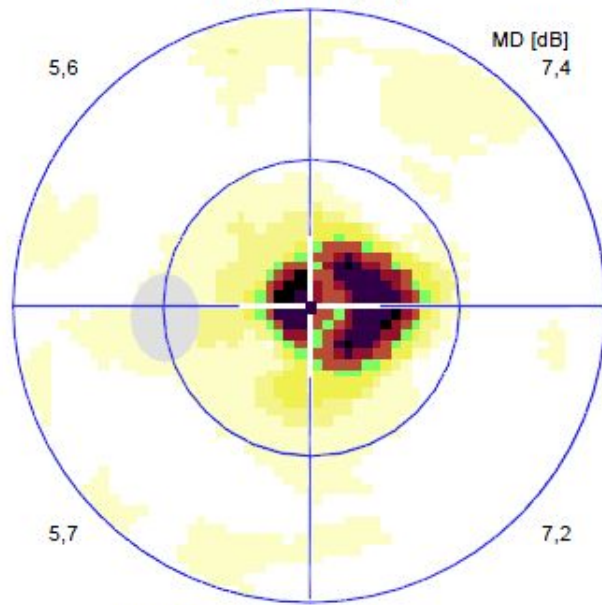


Case #4

Left eye (OS) / 06/04/2014 / 12:12:34

Seven-in-One

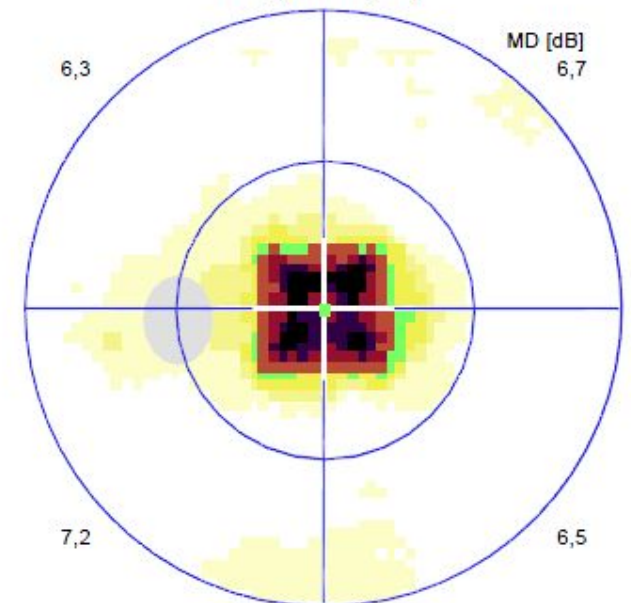
Greyscale (CO)



Left eye (OS) / 06/17/2014 / 08:58:14

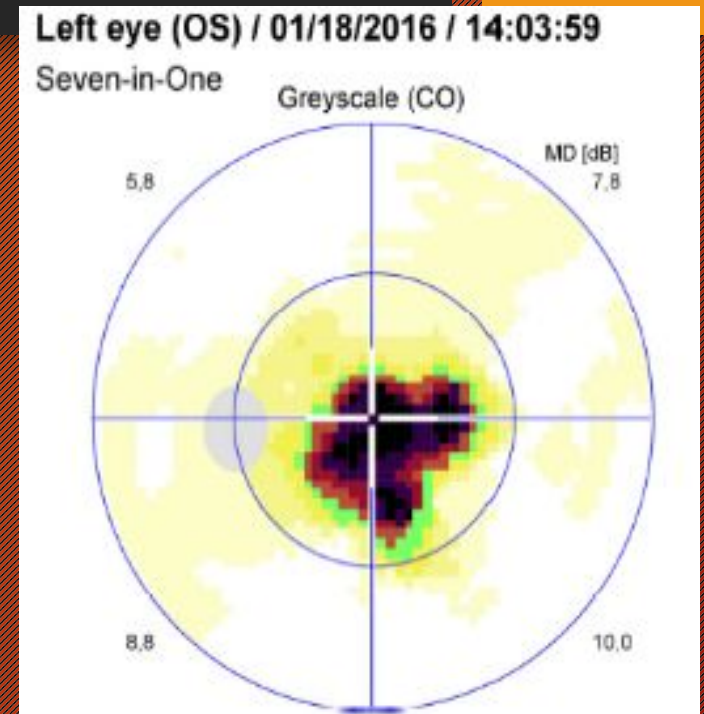
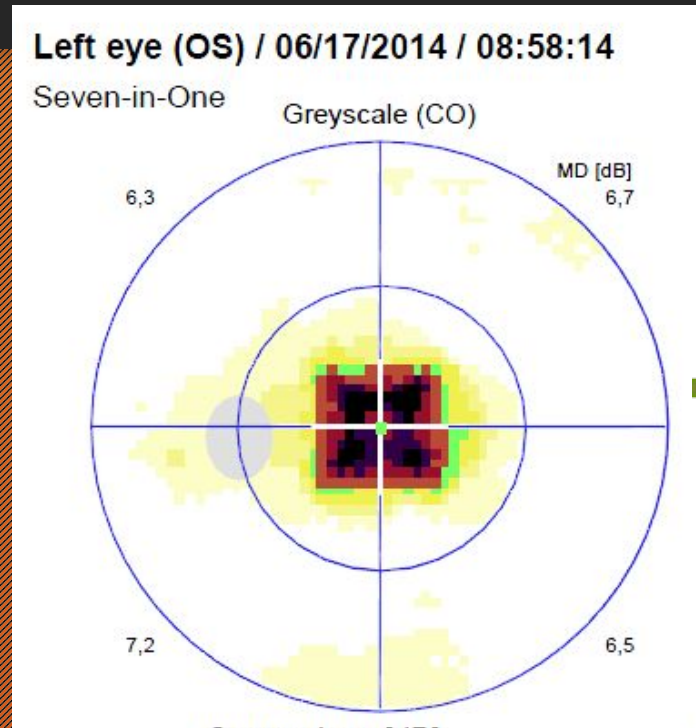
Seven-in-One

Greyscale (CO)



Visual acuity LE: 5/10 cc

Case #4

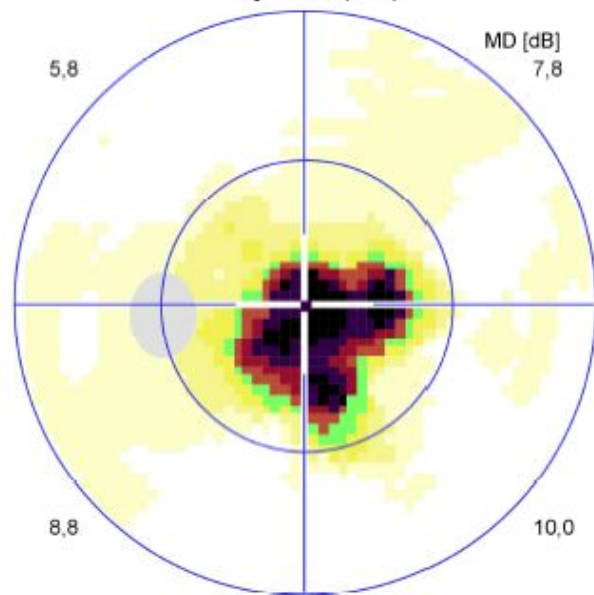


Case #4

Left eye (OS) / 01/18/2016 / 14:03:59

Seven-in-One

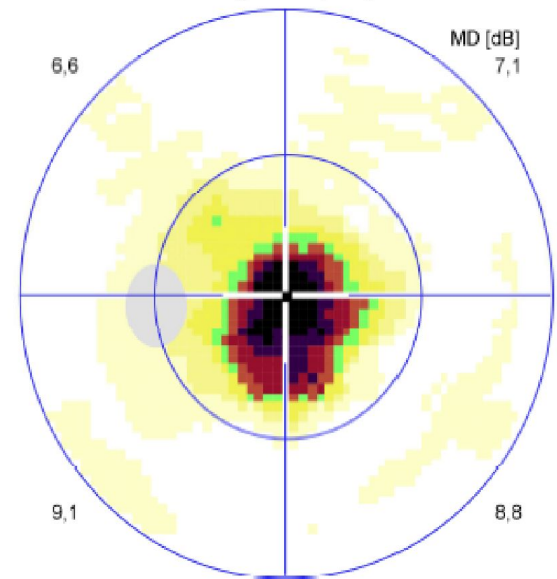
Greyscale (CO)



Left eye (OS) / 01/23/2016 / 10:05:07

Seven-in-One

Greyscale (CO)

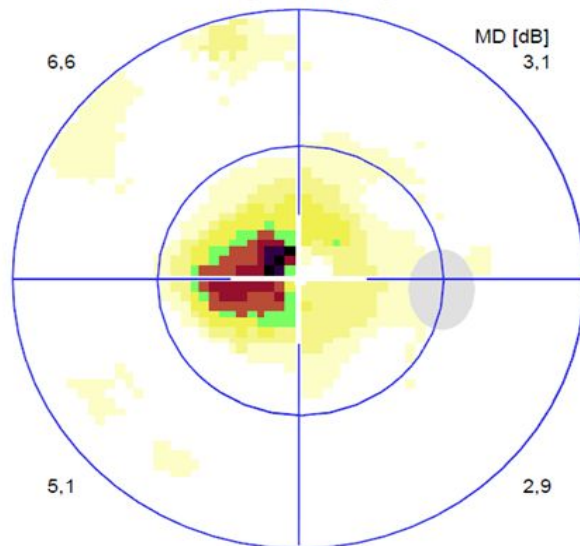


Case #4

Right eye (OD) / 10/20/2013 / 14:56:53

Seven-in-One

Greyscale (CO)



Conclusion

Results?

Improvement for the right eye.

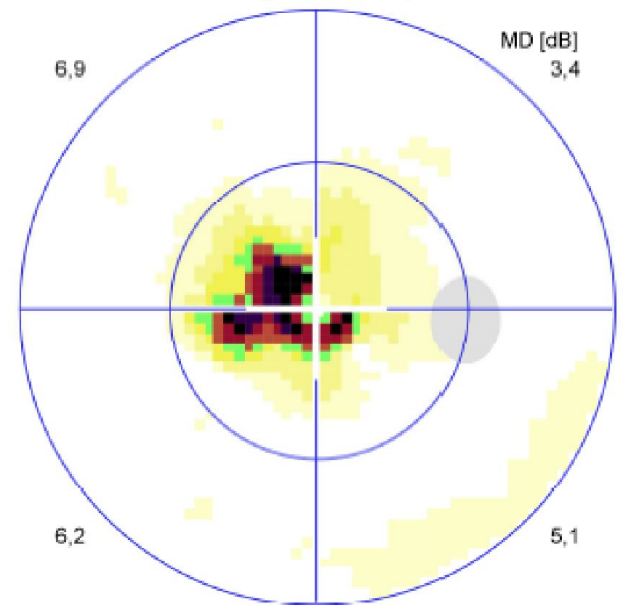
Visual acuity before any treatment: 7/10 cc.

Visual acuity after 2 rounds of treatment : 9/10 cc

Right eye (OD) / 01/23/2016 / 09:50:30

Seven-in-One

Greyscale (CO)

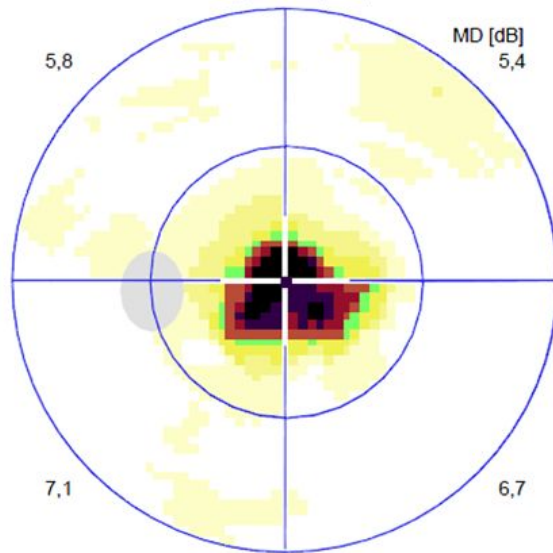


Case #4

Left eye (OS) / 10/20/2013 / 15:12:21

Seven-in-One

Greyscale (CO)



Conclusion



Results?

Stabilization for the left eye.

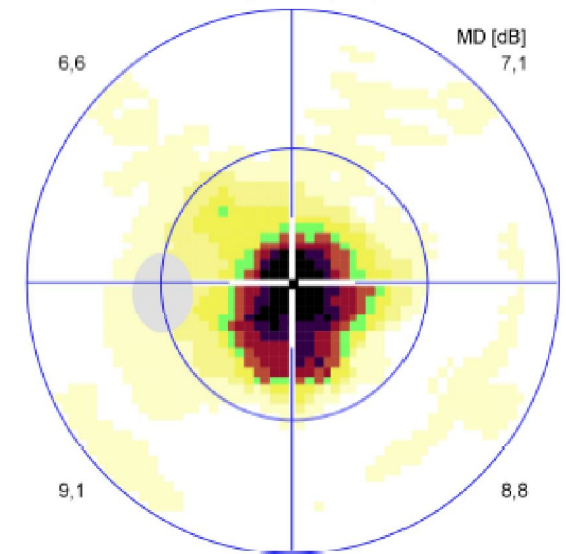
Visual acuity before any treatment: 3/10 cc

Visual acuity after 2 rounds of treatment: 5/10 cc

Left eye (OS) / 01/23/2016 / 10:05:07

Seven-in-One

Greyscale (CO)



Case #4

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