

**KHAVINSON PEPTIDES®**

International Research Foundation

**Peptide Bioregulator Europe AB**  
[www.peptide-bioregulator.com](http://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.



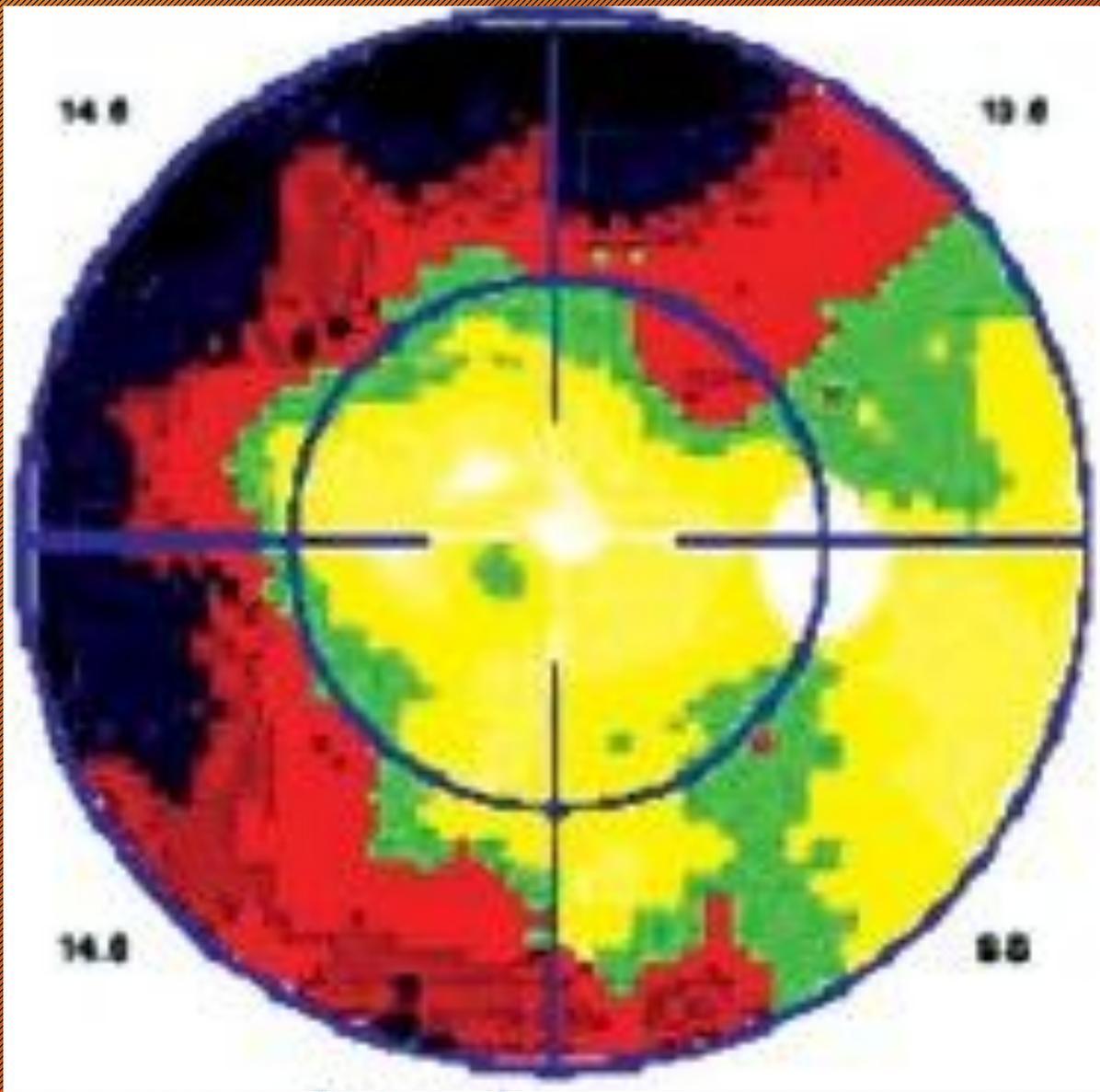
Normal eye



Eye with RP

# Tubular vision





[%]

Black	95..100
Dark Purple	83..94
Dark Red	71..82
Red	59..70
Green	47..58
Yellow	35..46
Light Yellow	23..34
White	11..22
White	0..10

# Case #1

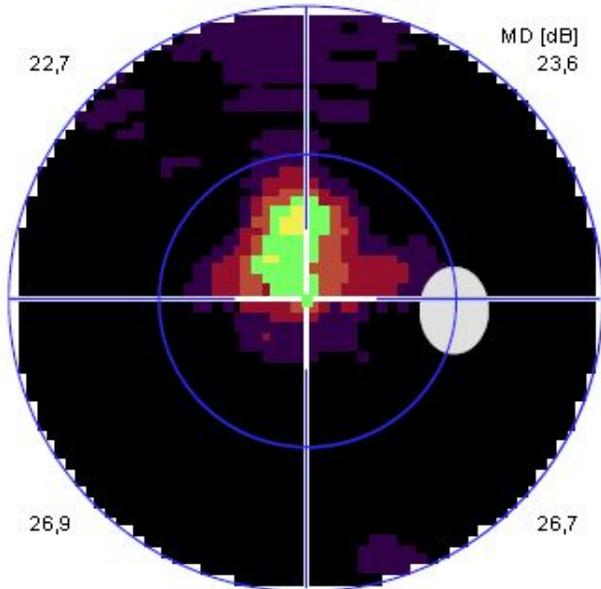
- Female patient
- 39 years old
- Pathology: Retinitis pigmentosa
- Visual acuity before treatment:  
RE 5/10 cc  
LE 5/10 cc
- First visit: February 2014

# Visual Fields Pre-Treatment

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

Seven-in-One

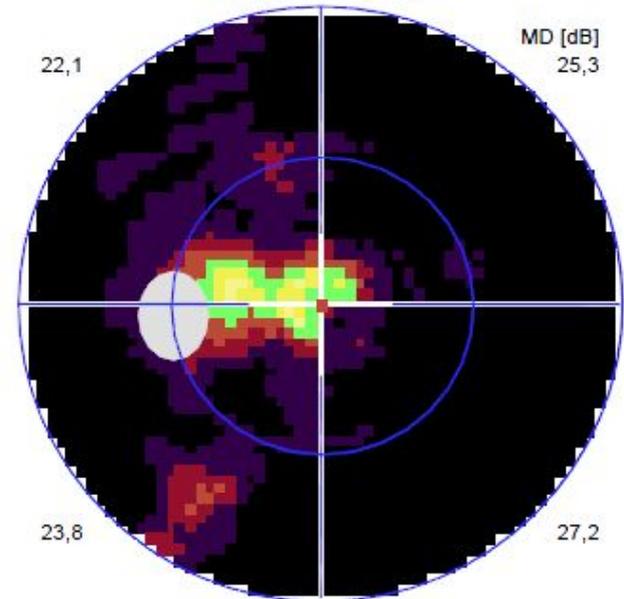
Greyscale (CO)



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

Seven-in-One

Greyscale (CO)

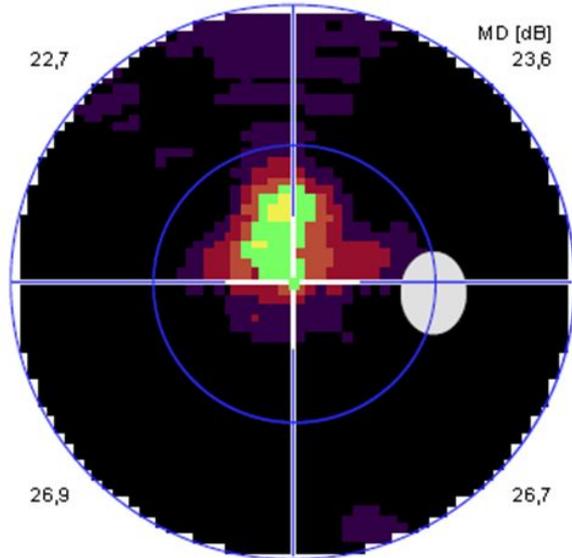


Case #1

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

Seven-in-One

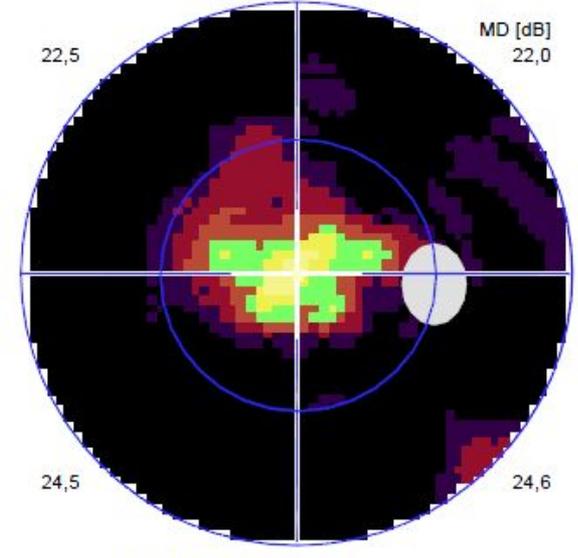
Greyscale (CO)



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

Seven-in-One

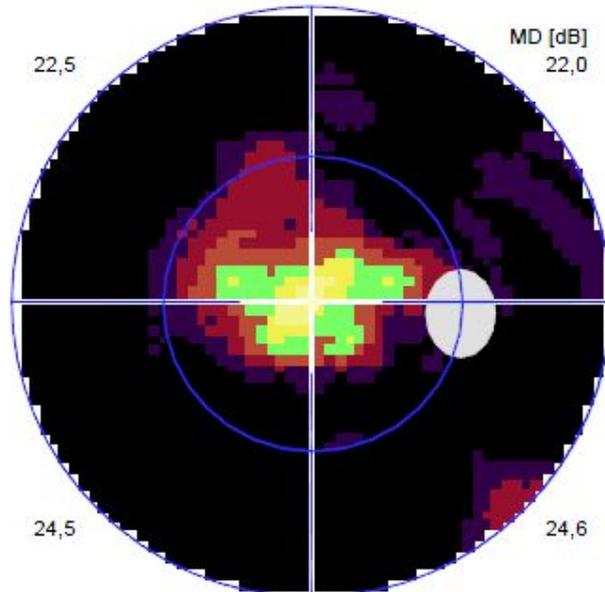
Greyscale (CO)



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

Seven-in-One

Greyscale (CO)

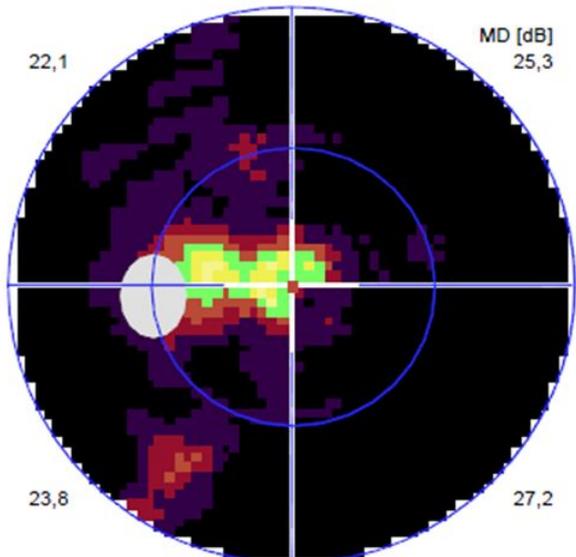


Case #1

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

Seven-in-One

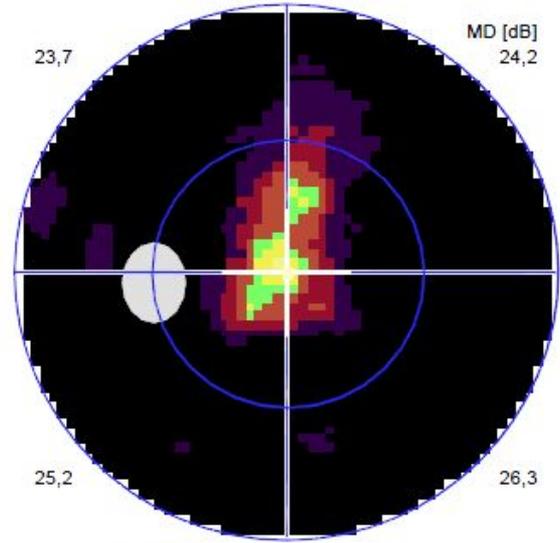
Greyscale (CO)



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

Seven-in-One

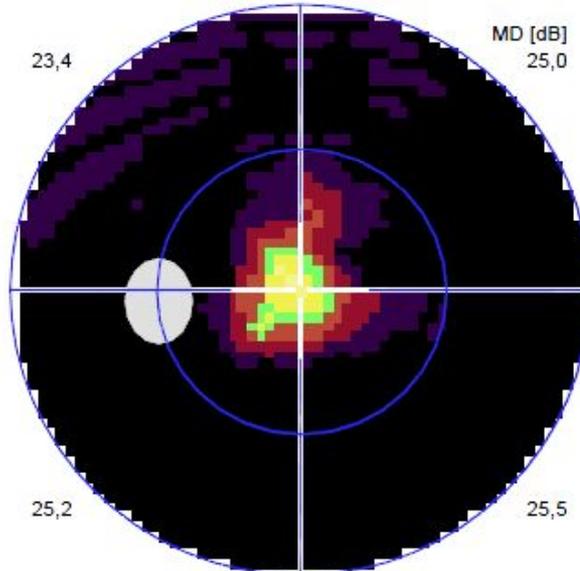
Greyscale (CO)



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

Seven-in-One

Greyscale (CO)

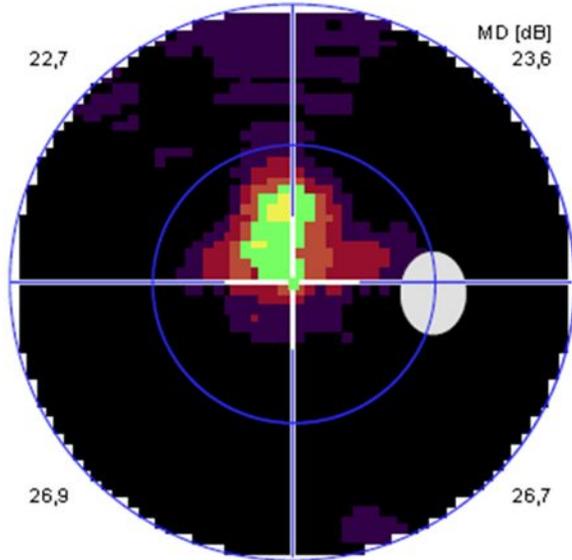


Case #1

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.*

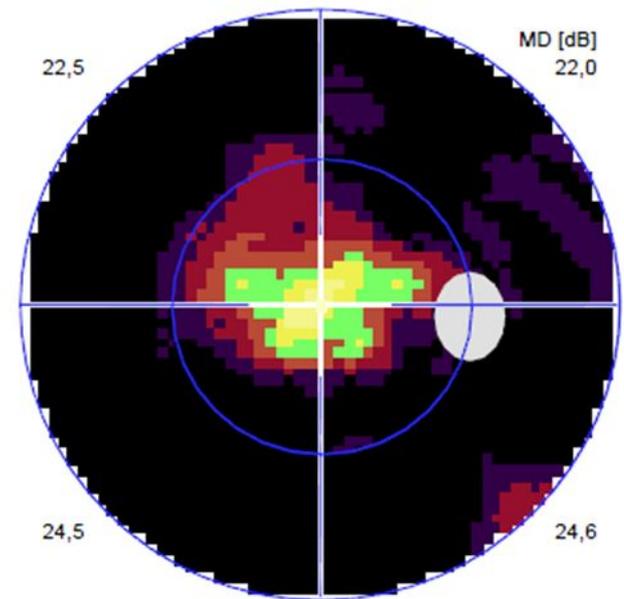
Visual acuity before treatment: RE 5/10 cc

Visual acuity after treatment : RE 5/10 cc

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

Seven-in-One

Greyscale (CO)

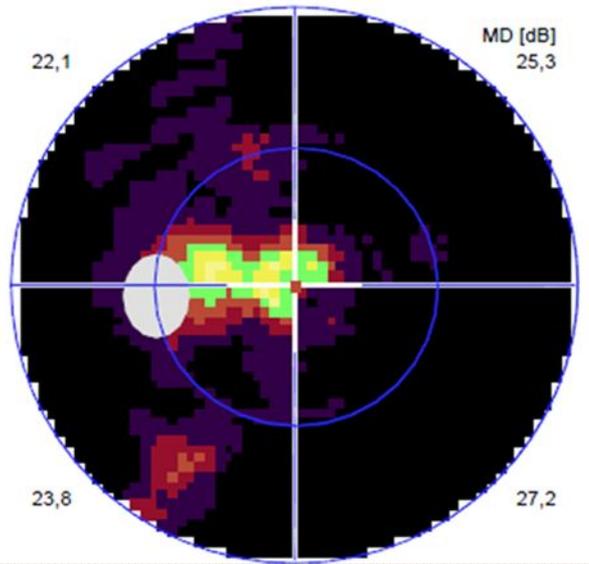


Case #1

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

Seven-in-One

Greyscale (CO)

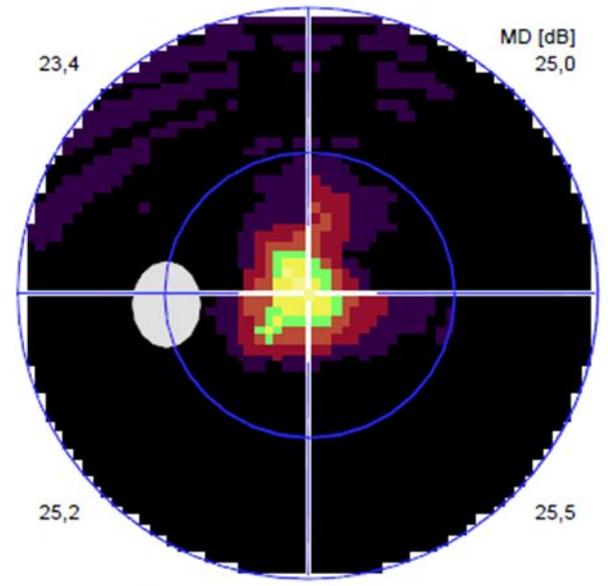


# Conclusion

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

Seven-in-One

Greyscale (CO)



Results?

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

Case #1

## Case #2

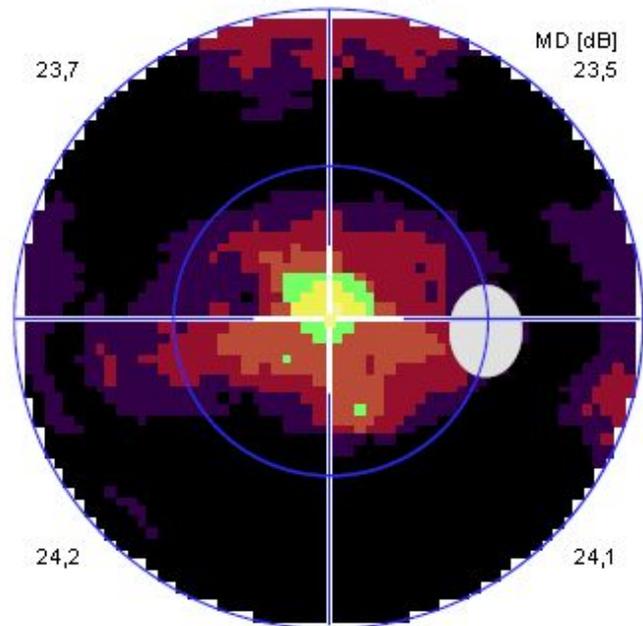
- Male patient
- 17 years old
- Pathology: Retinitis pigmentosa
- Visual acuity before treatment:  
RE: 6/10 cc  
LE: 6/10 cc
- First visit: January 2014

# Visual fields pre-treatment

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

Seven-in-One

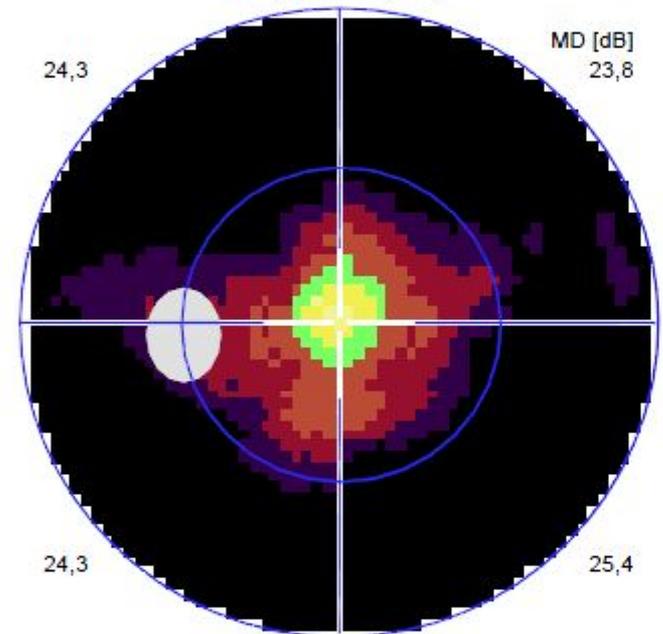
Greyscale (CO)



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

Seven-in-One

Greyscale (CO)



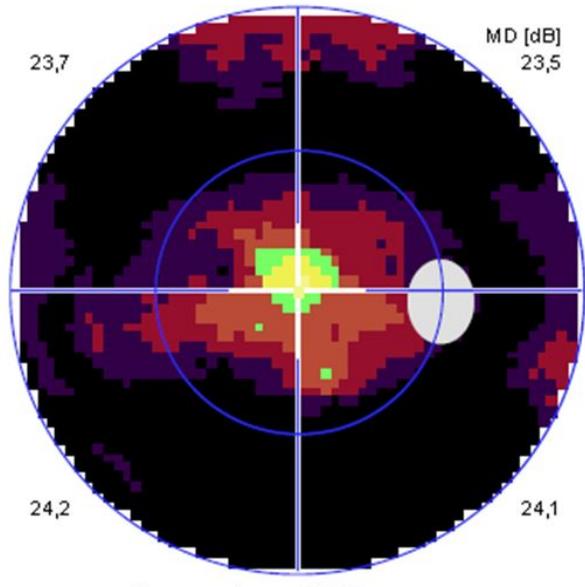
Case #2

# Visual fields after 10 days

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

Seven-in-One

Greyscale (CO)

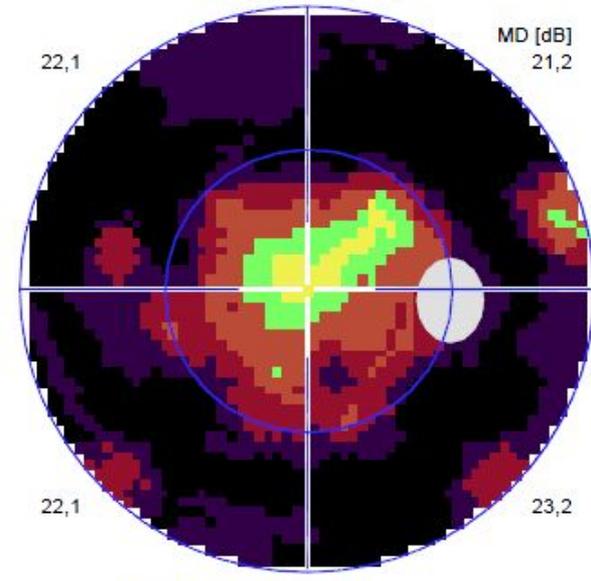


Visual acuity RE: 6/10 cc

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

Seven-in-One

Greyscale (CO)



Visual acuity RE: 7/10 cc

Case #2

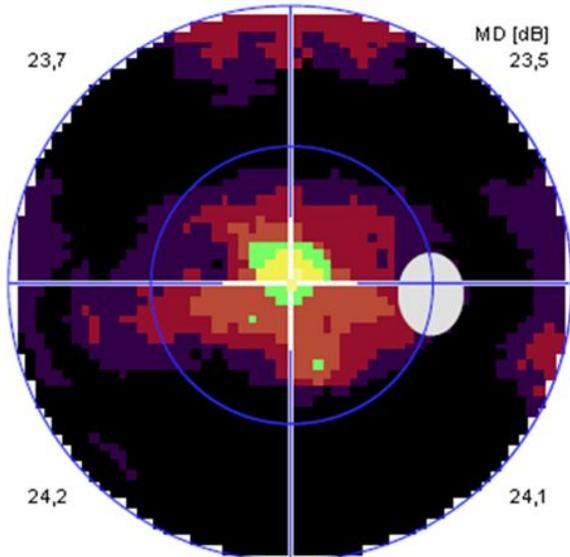
# Visual fields post treatment (35 days from the beginning)

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

Seven-in-One

Greyscale (CO)

MD [dB]  
23,5

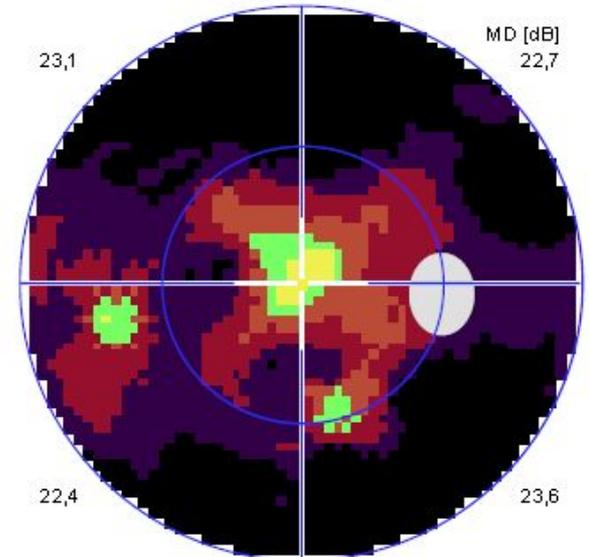


Right eye (OD) / 03/04/2014 / 15:12:14

Seven-in-One

Greyscale (CO)

MD [dB]  
22,7

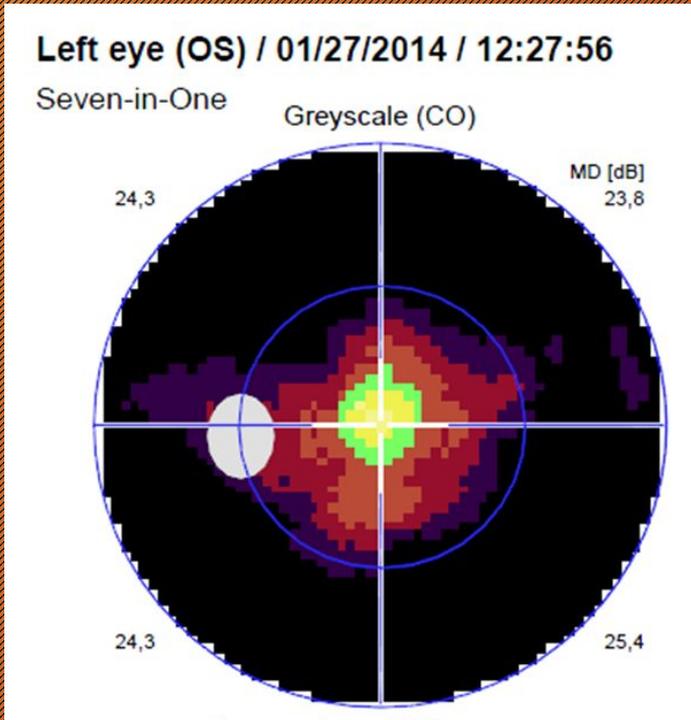


Visual acuity RE: 7/10 cc

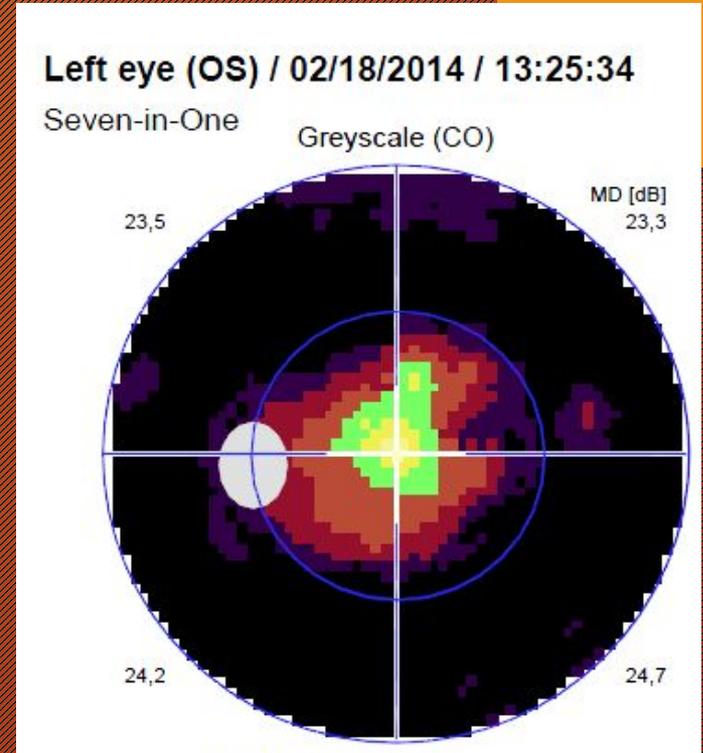
Visual acuity RE: 7/10 cc

Case #2

# Visual fields after 10 days



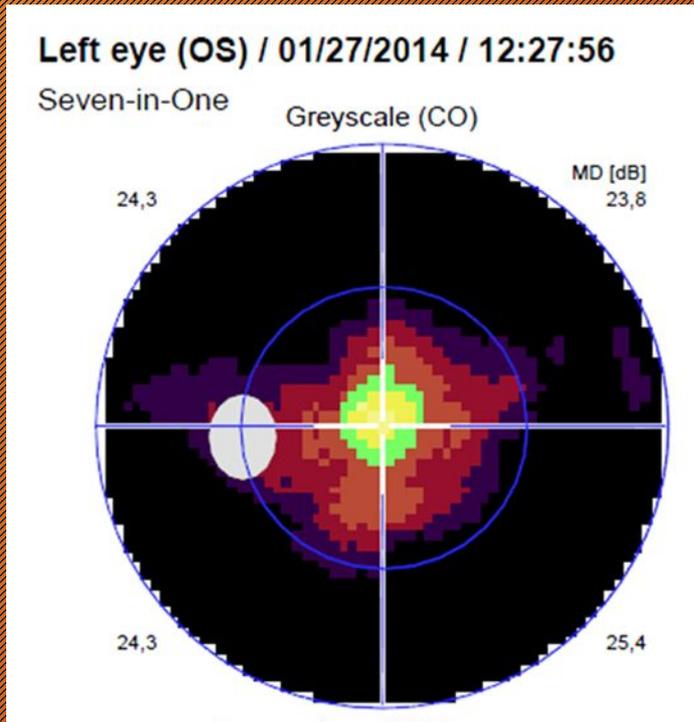
Visual acuity LE: 6/10 cc



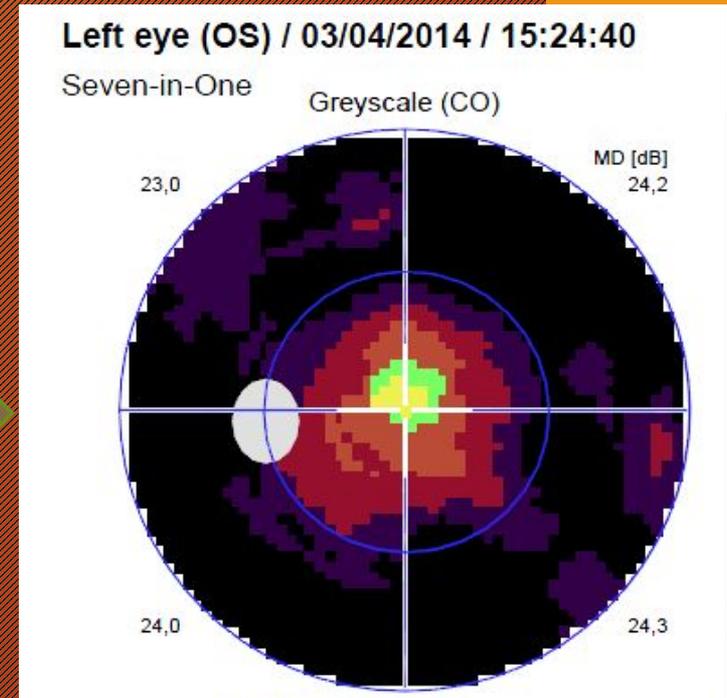
Visual acuity LE: 7/10 cc

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

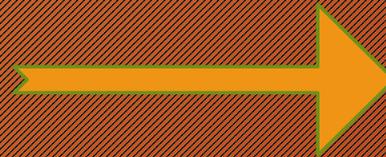
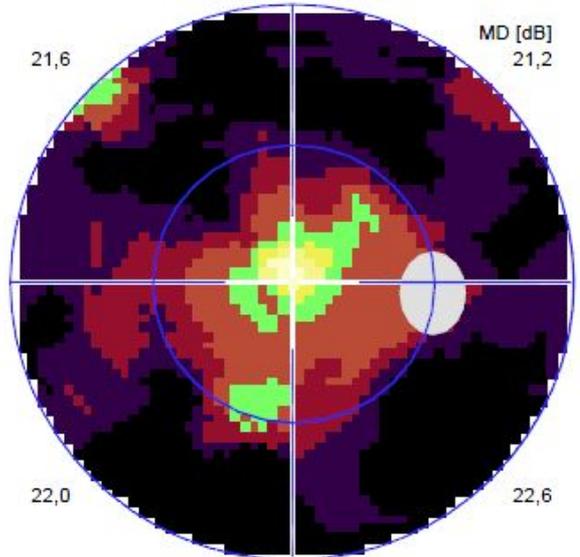
Patient received a second round of therapy in July 2014.

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

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

Seven-in-One

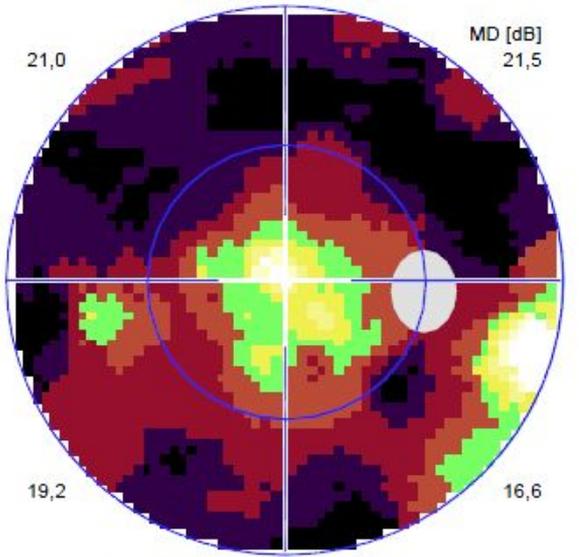
Greyscale (CO)



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

Seven-in-One

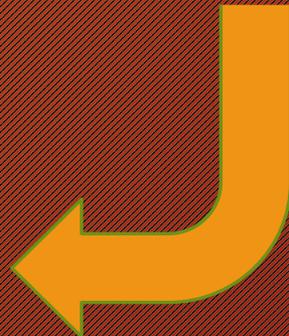
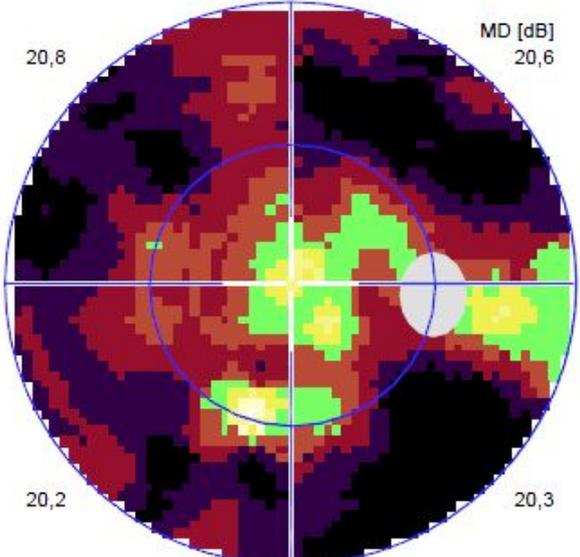
Greyscale (CO)



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

Seven-in-One

Greyscale (CO)



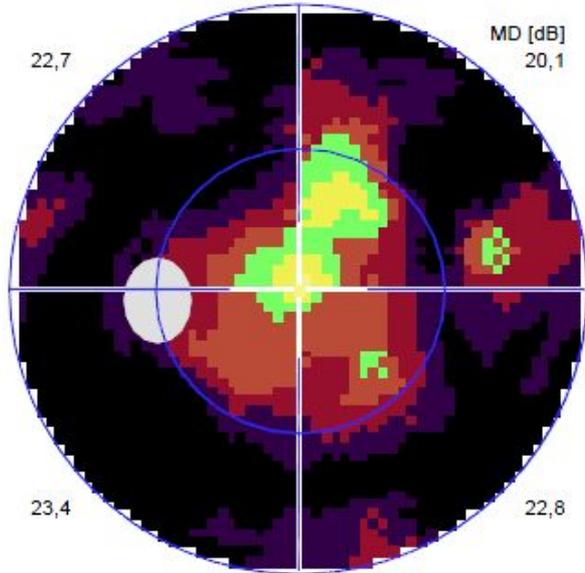
Visual acuity RE: 7/10 cc

Case #2

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

Seven-in-One

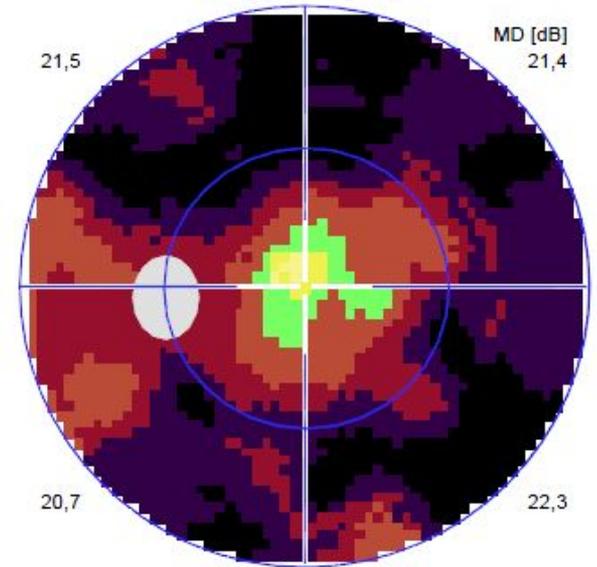
Greyscale (CO)



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

Seven-in-One

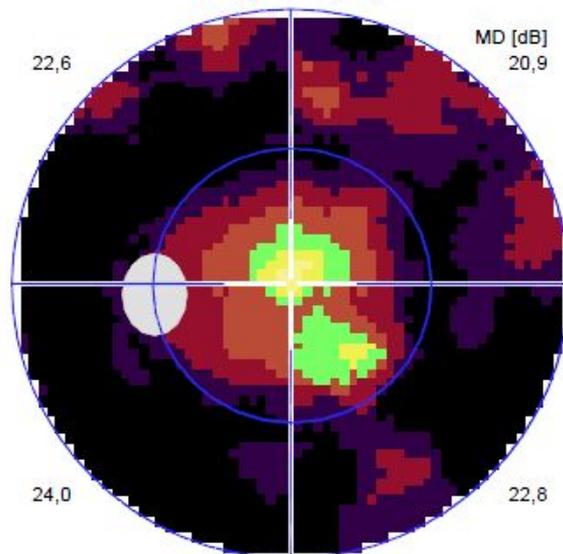
Greyscale (CO)



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

Seven-in-One

Greyscale (CO)



Visual acuity LE: 7/10 cc

Case #2

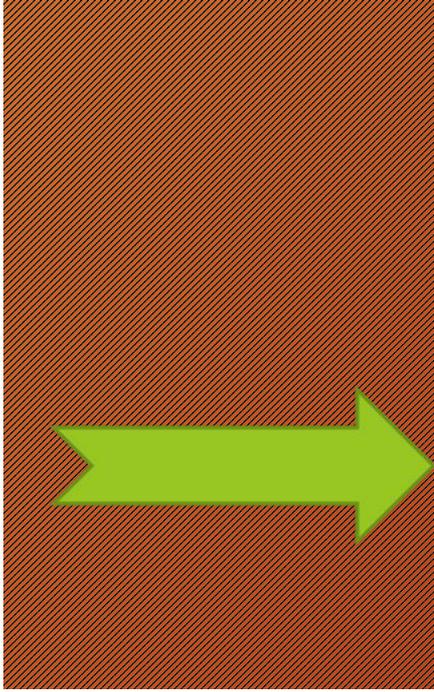
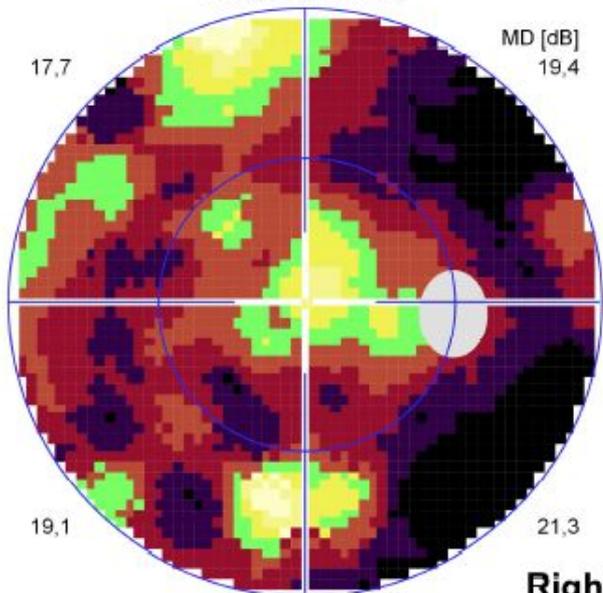
Patient received a third round of therapy in February 2015

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

Right eye (OD) / 02/05/2015 / 11:57:10

Seven-in-One

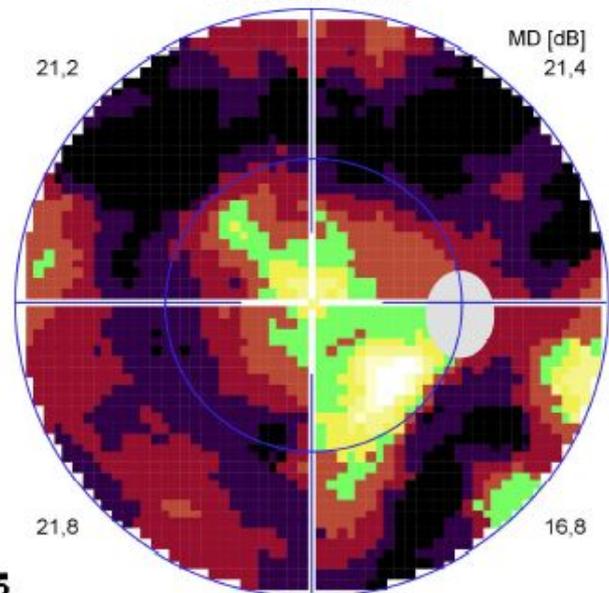
Greyscale (CO)



Right eye (OD) / 03/09/2015 / 10:49:47

Seven-in-One

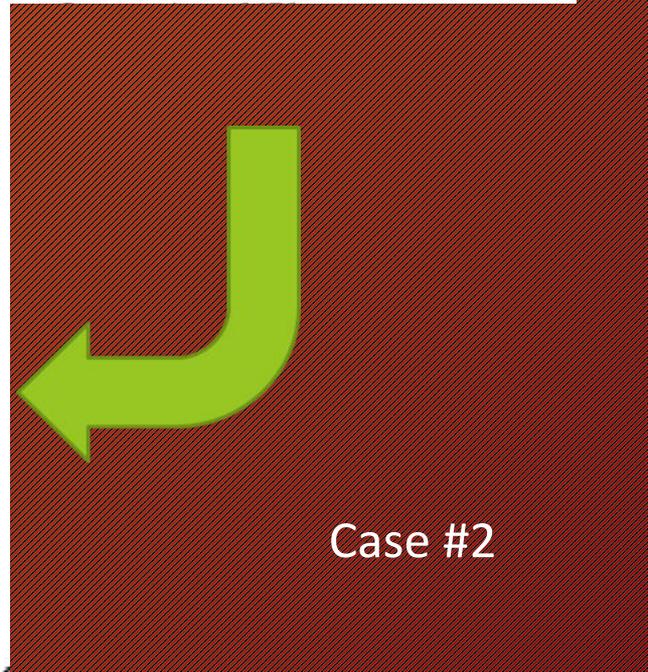
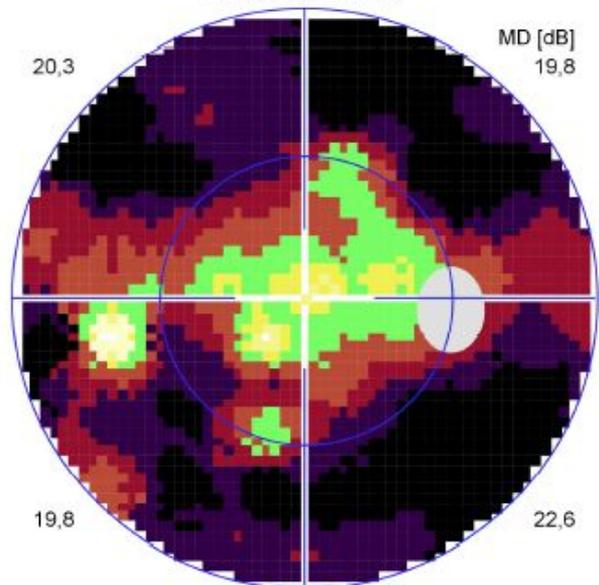
Greyscale (CO)



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

Seven-in-One

Greyscale (CO)



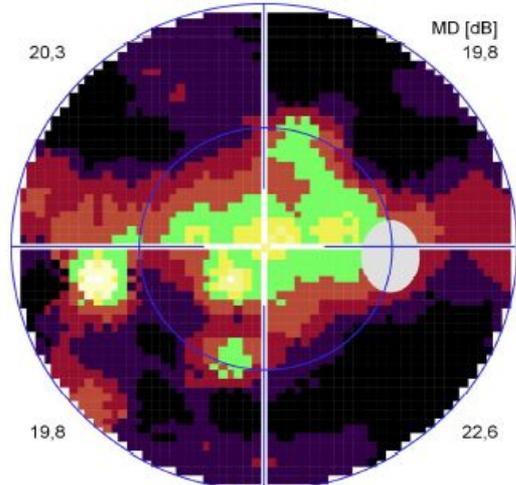
Visual acuity RE: 7/10 cc

Case #2

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

Seven-in-One

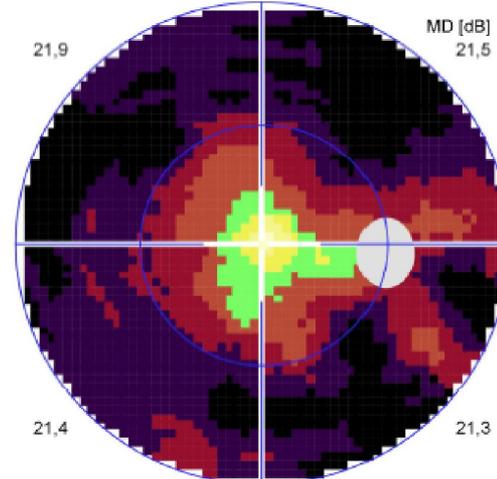
Greyscale (CO)



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

Seven-in-One

Greyscale (CO)

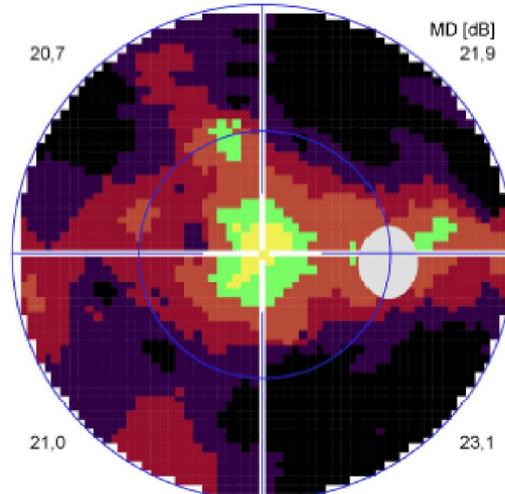


Visual acuity RE: 7/10 cc

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

Seven-in-One

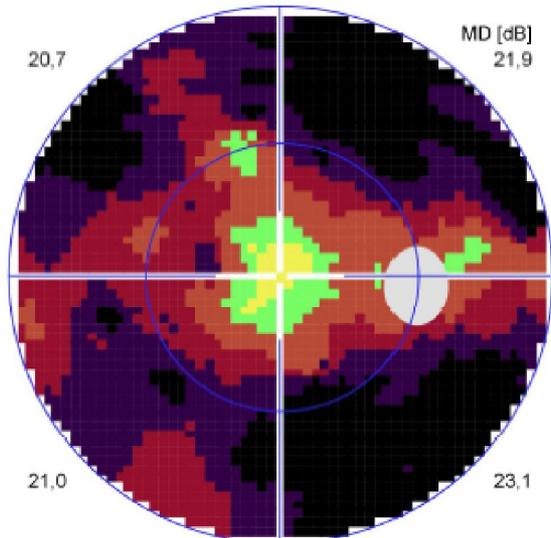
Greyscale (CO)



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

Seven-in-One

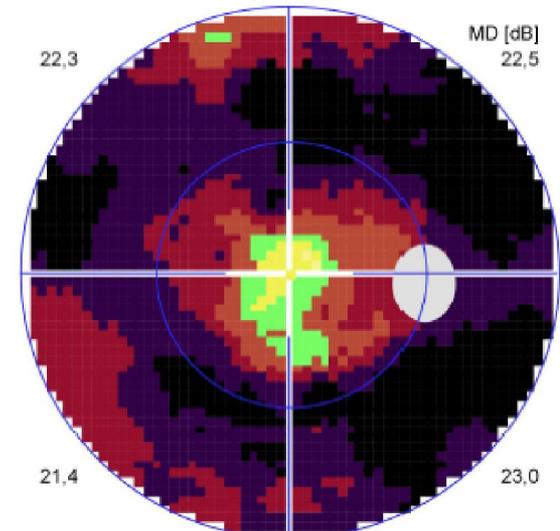
Greyscale (CO)



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

Seven-in-One

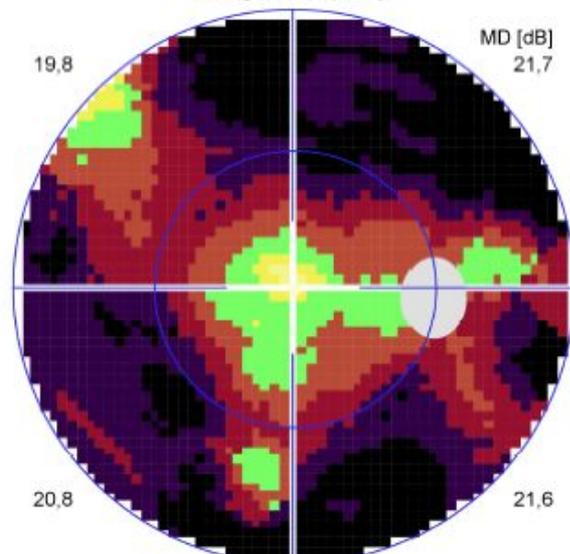
Greyscale (CO)



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

Seven-in-One

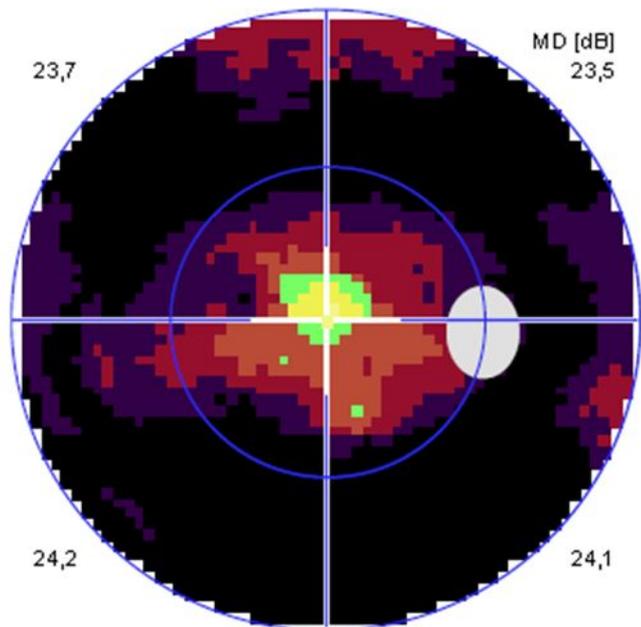
Greyscale (CO)



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.*

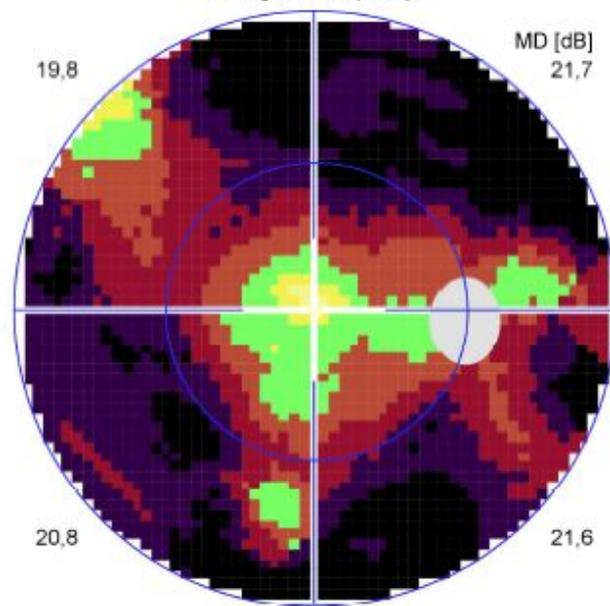
Visual acuity before any treatment: 6/10 cc.

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

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

Seven-in-One

Greyscale (CO)

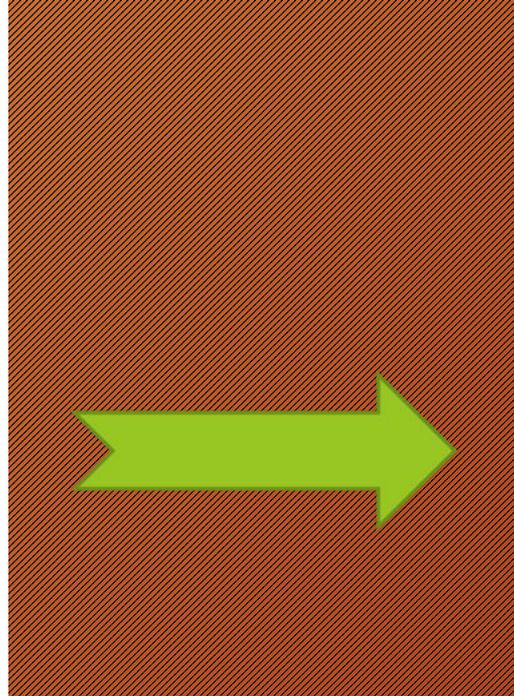
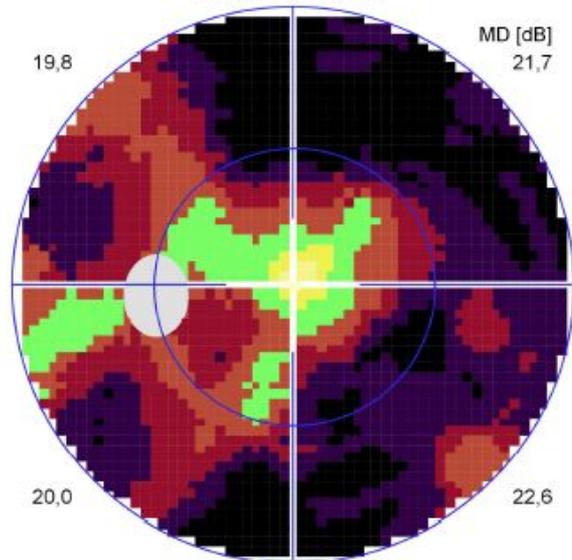


Case #2

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

Seven-in-One

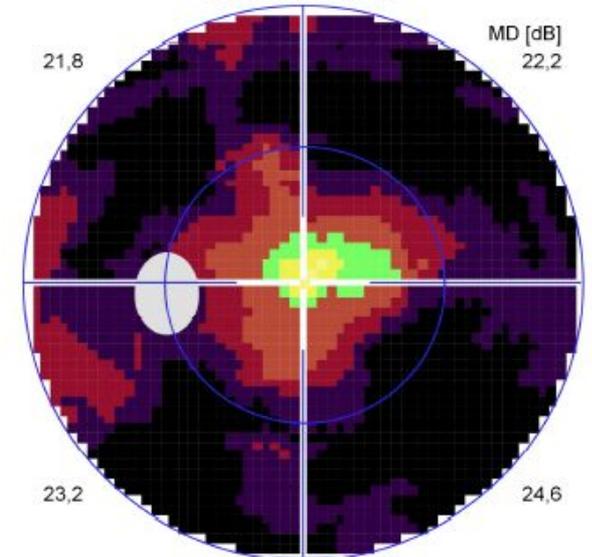
Greyscale (CO)



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

Seven-in-One

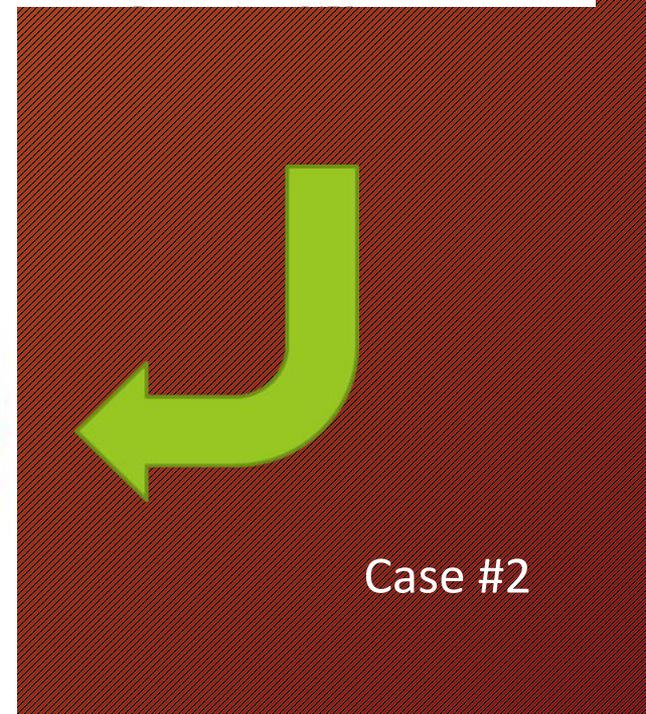
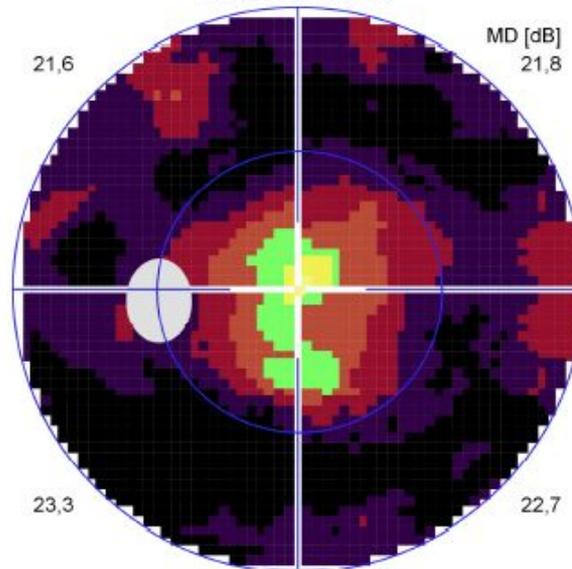
Greyscale (CO)



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

Seven-in-One

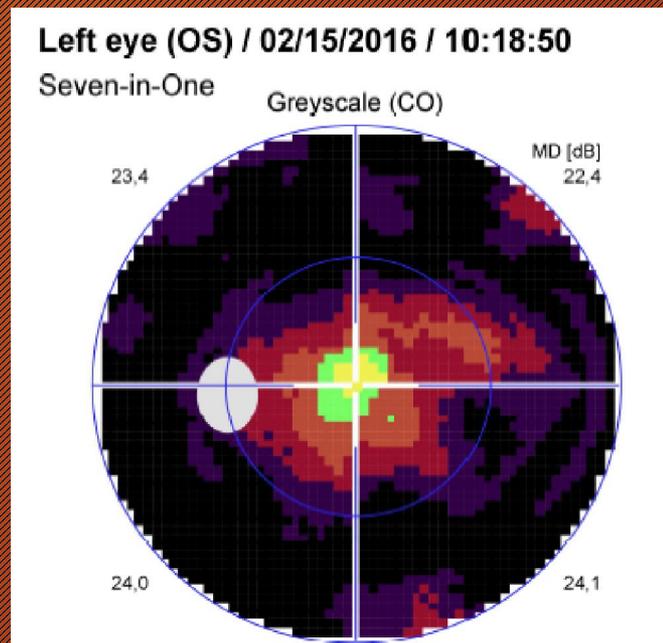
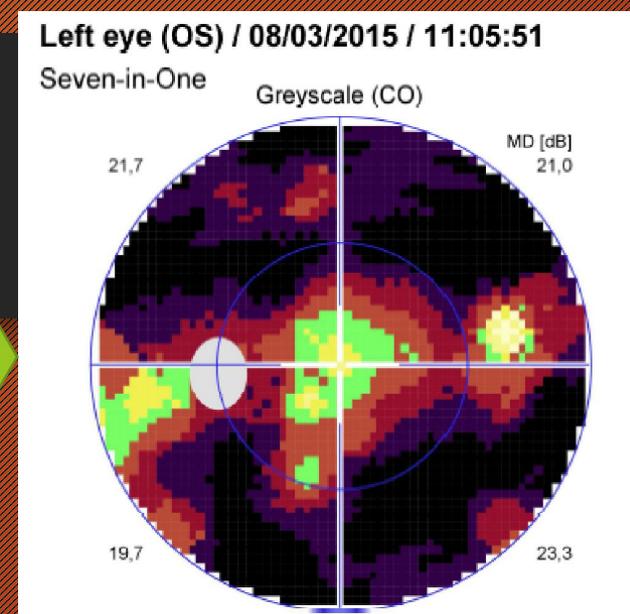
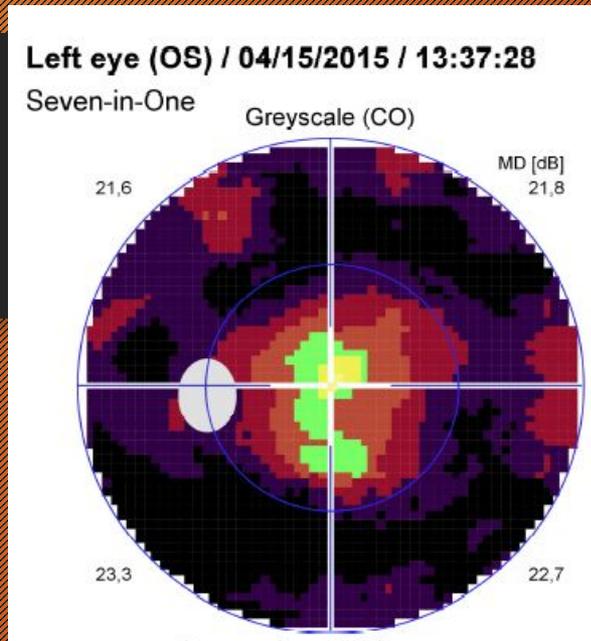
Greyscale (CO)



Visual acuity LE: 7/10 cc

Case #2

Visual acuity LE:  
7/10 cc

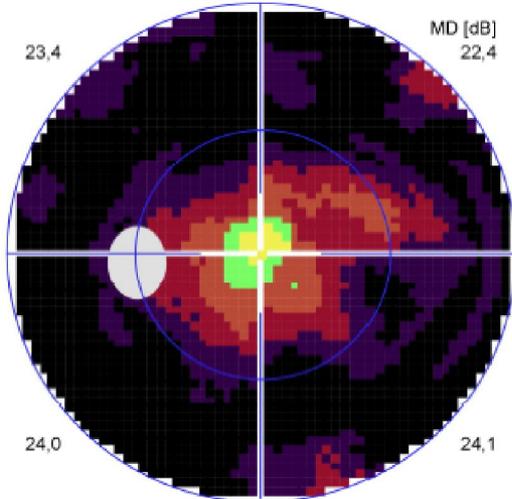


Case #2

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

Seven-in-One

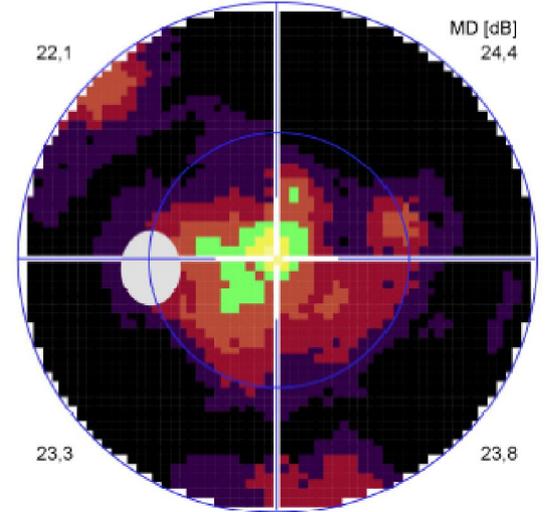
Greyscale (CO)



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

Seven-in-One

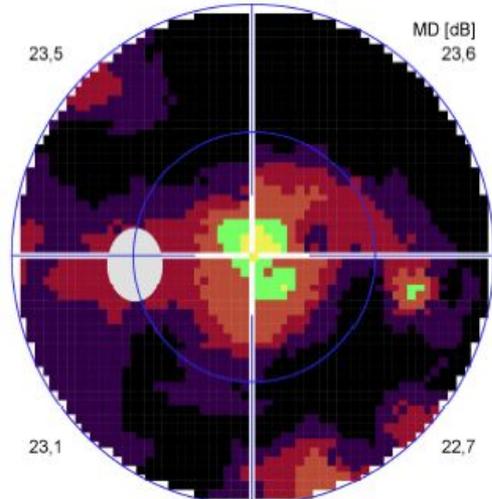
Greyscale (CO)



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

Seven-in-One

Greyscale (CO)

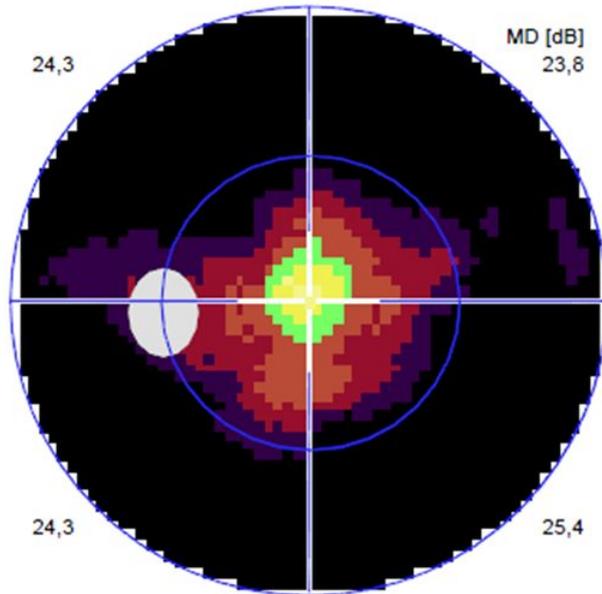


Case #2

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

Seven-in-One

Greyscale (CO)



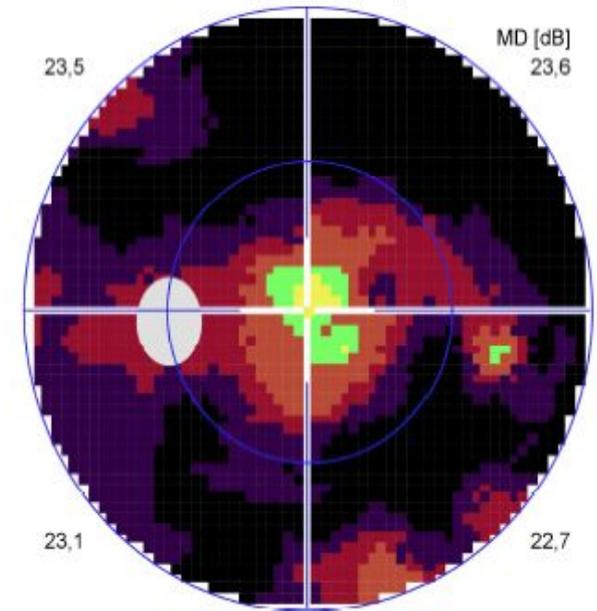
# Conclusion



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

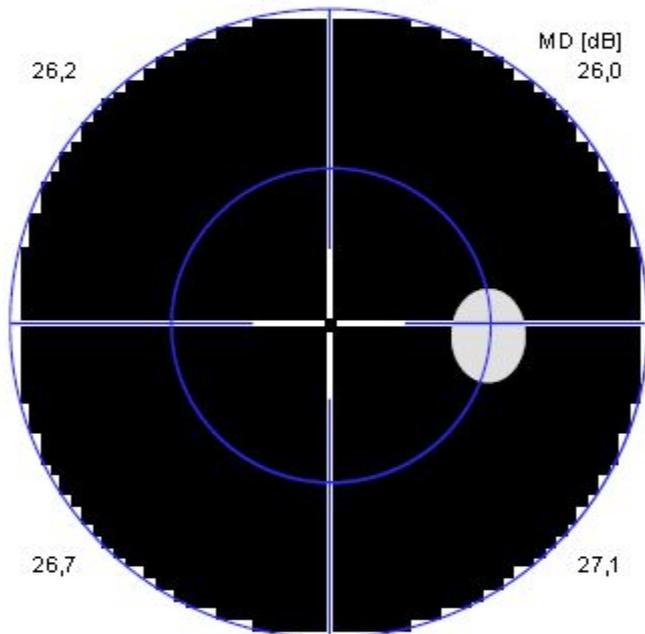
Pre-treatment

Post treatment

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

Seven-in-One

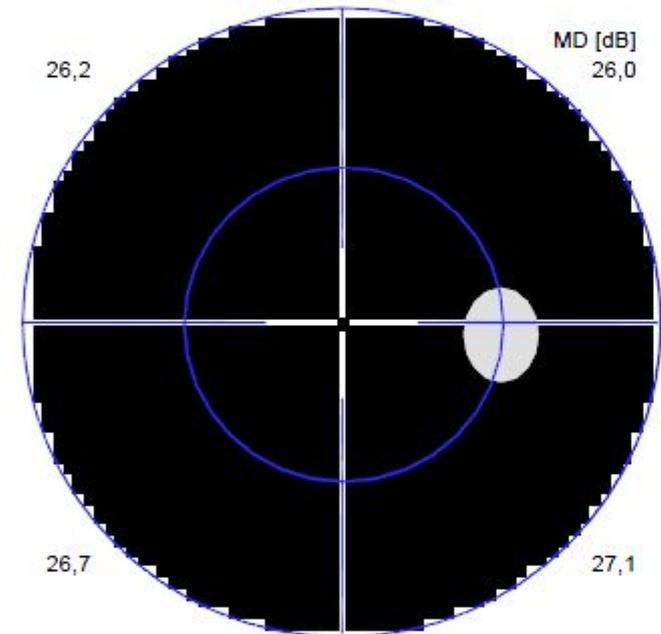
Greyscale (CO)



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

Seven-in-One

Greyscale (CO)



Case #3

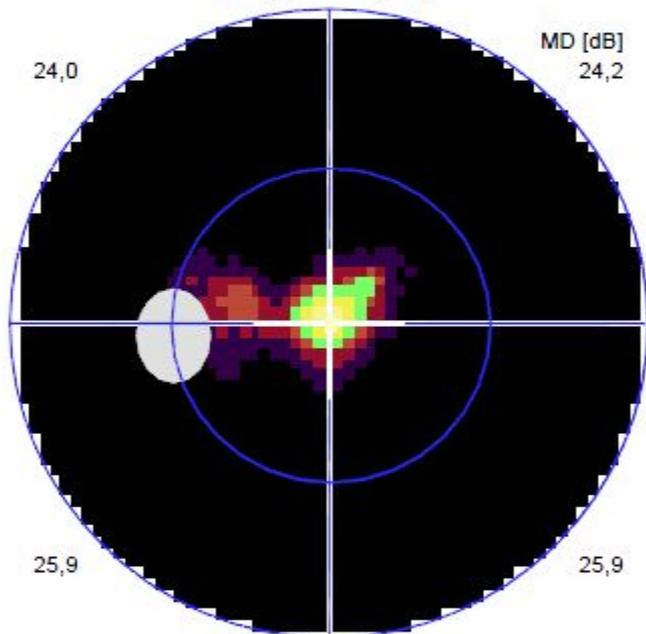
Pre-treatment  
VA 4/10 cc

Post treatment  
VA 4-5/10 cc

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

Seven-in-One

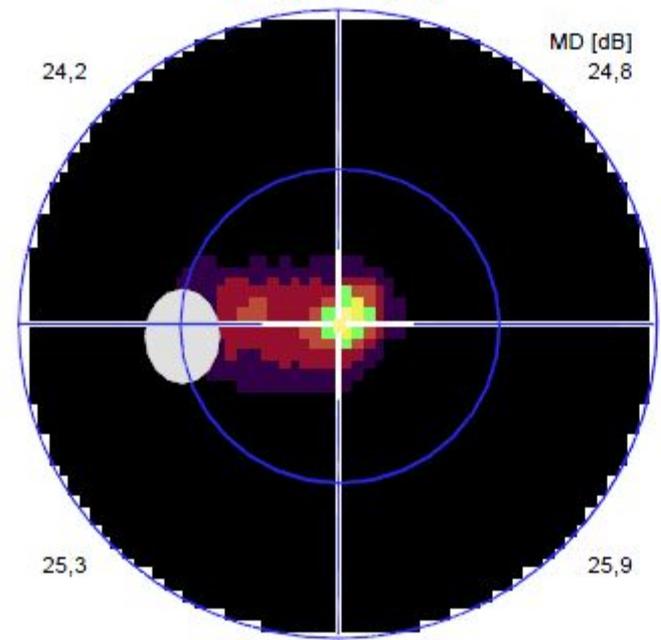
Greyscale (CO)



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

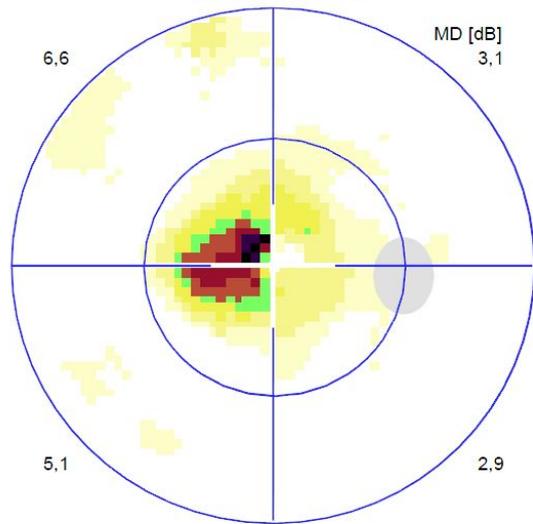
- Male patient
- 33 years old
- Pathology: Retinitis pigmentosa
- Visual acuity before treatment  
RE: 7/10 cc  
LE: 3/10 cc
- First visit: October 2013

# Visual fields pre treatment

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

Seven-in-One

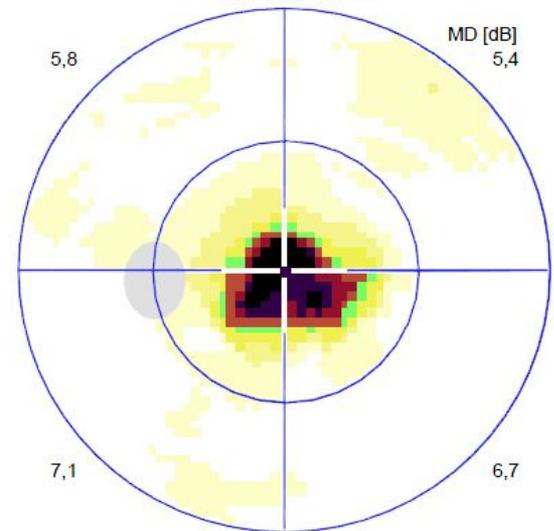
Greyscale (CO)



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

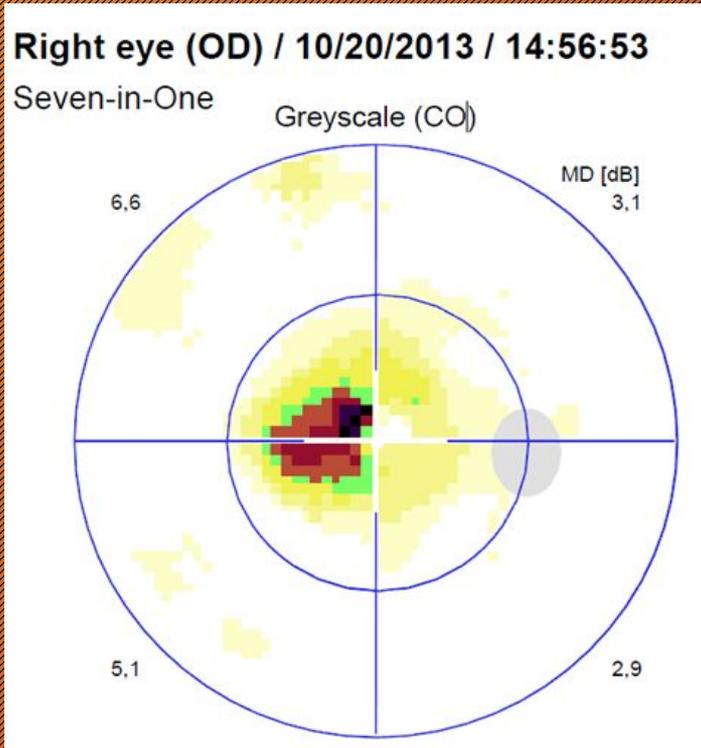
Seven-in-One

Greyscale (CO)

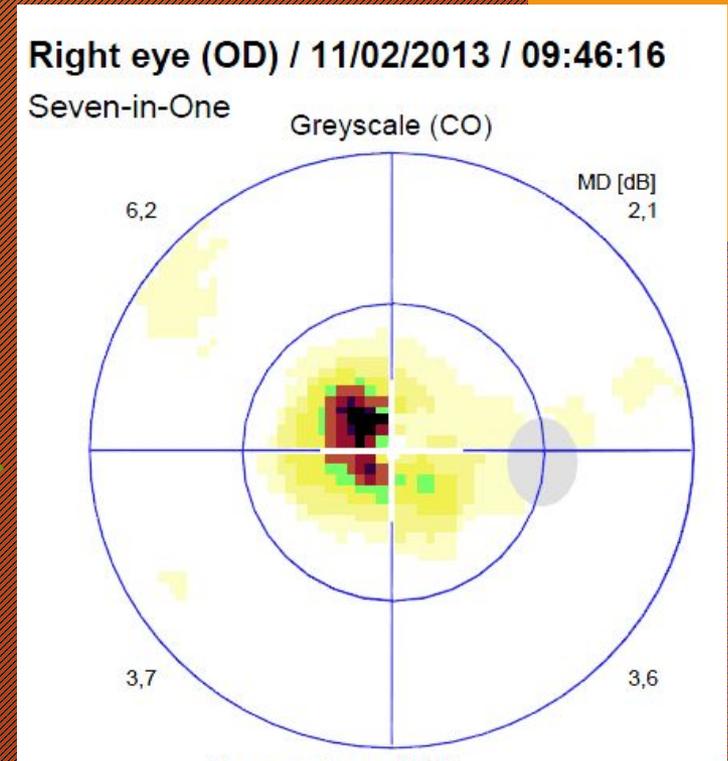


Case #4

# Visual fields after 10 days



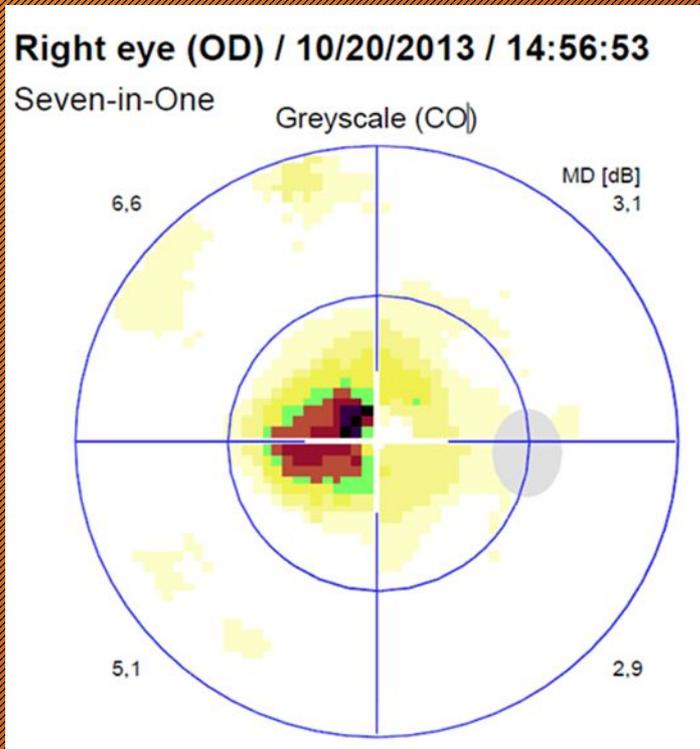
Visual acuity RE: 7/10 cc



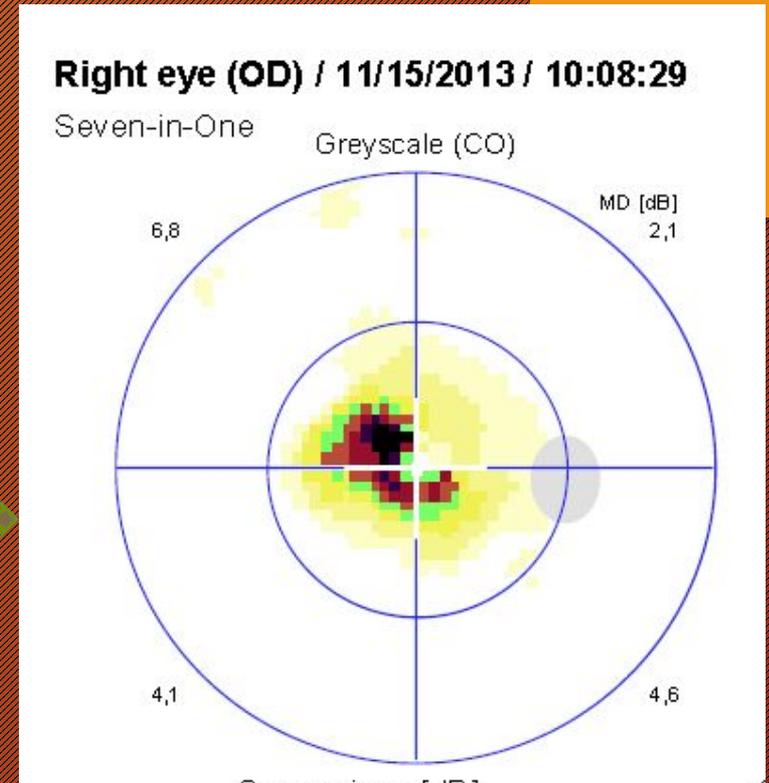
Visual acuity RE: 8/10 cc

Case #4

# Visual fields post treatment (20 days from the beginning)



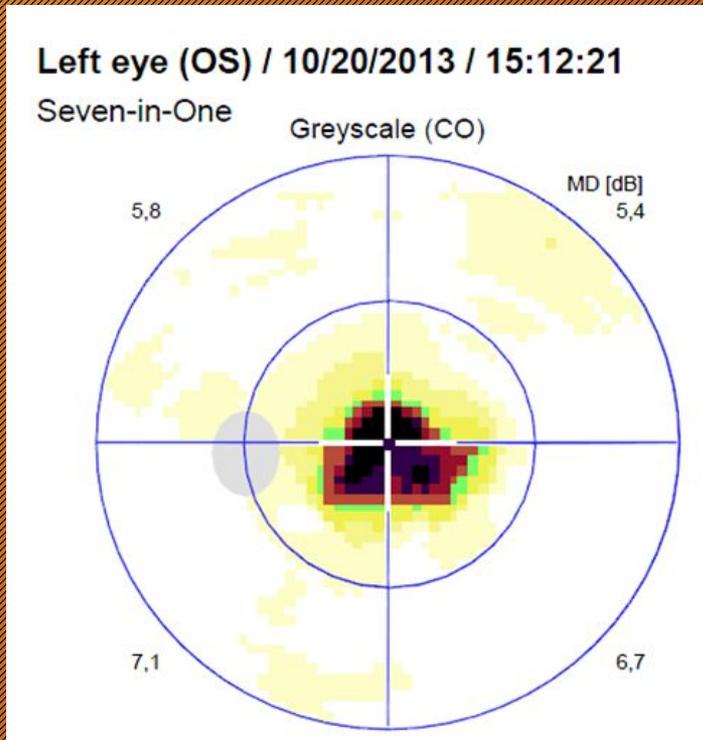
Visual acuity LE: 7/10 cc



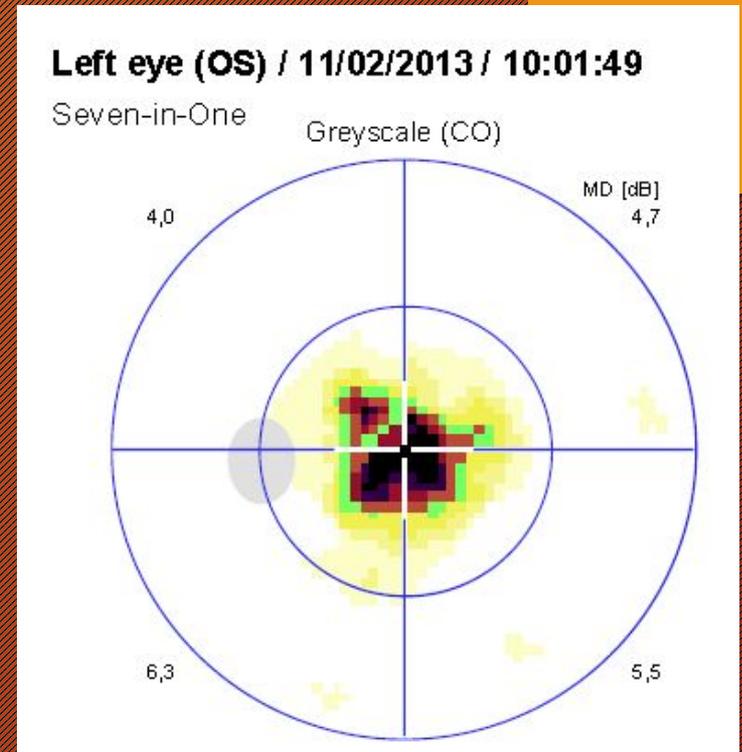
Visual acuity RE: 8/10 cc

Case #4

# Visual Fields after 10 days



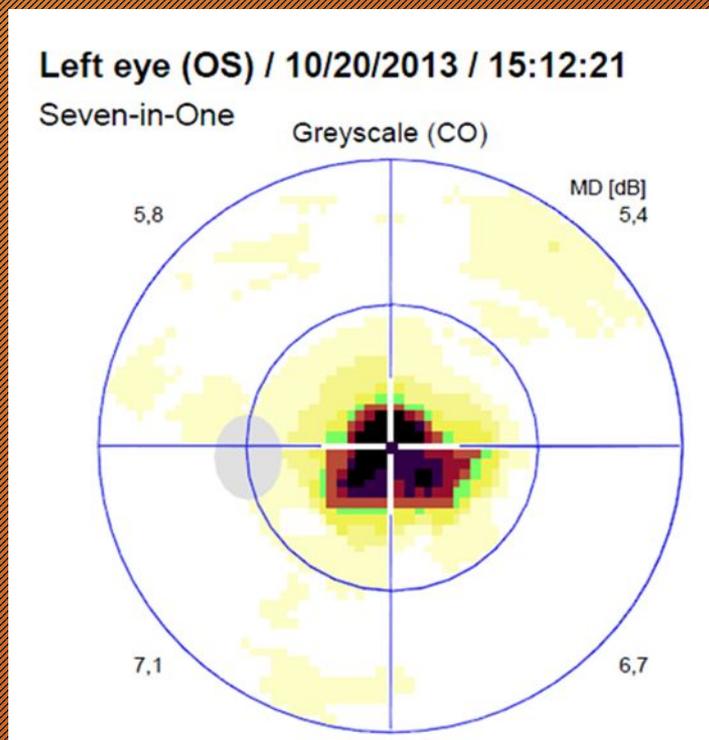
Visual acuity LE: 3/10 cc



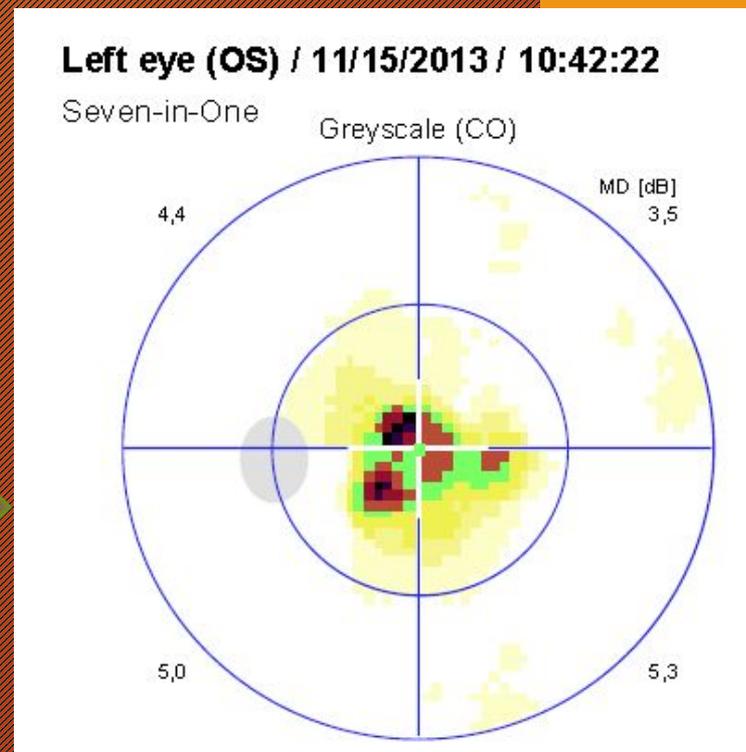
Visual acuity LE: 3/10 cc

Case #4

# Visual Fileds post-Treatment (20 days from the beginning)



Visual acuity LE: 3/10 cc



Visual acuity LE: 5/10 cc

Case #4

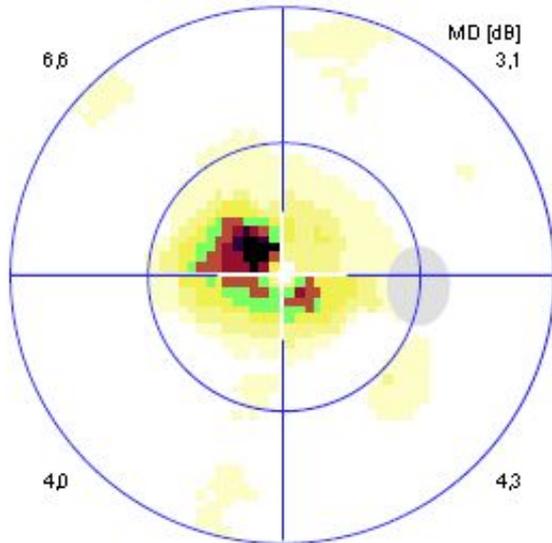
Patient received a second round of therapy in February 2014.

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

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

Seven-in-One

Greyscale (CO)

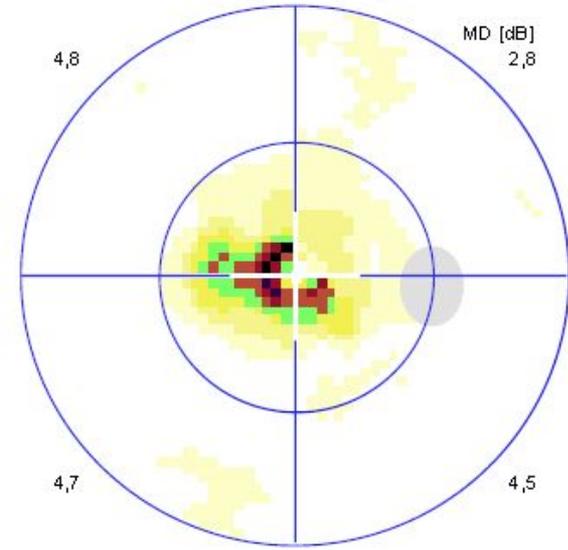


Visual acuity RE: 8/10 cc

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

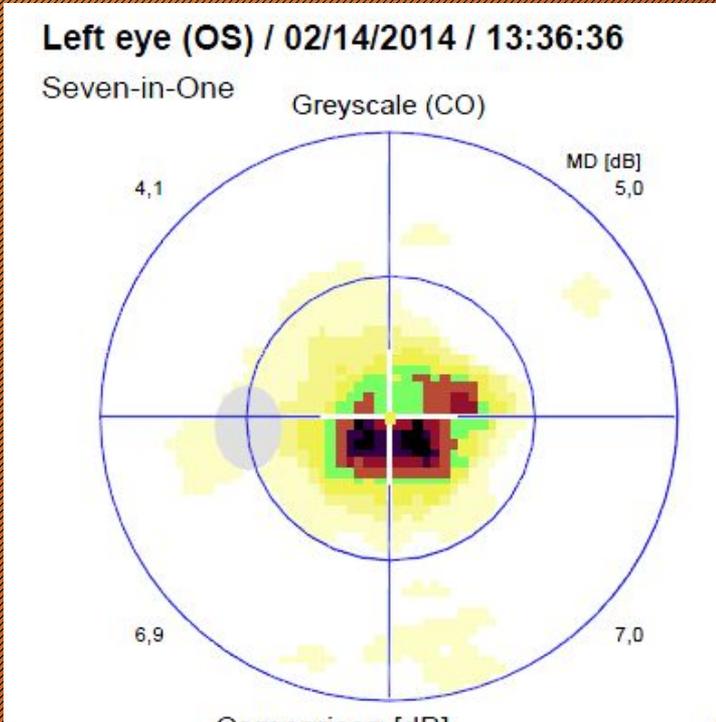
Seven-in-One

Greyscale (CO)

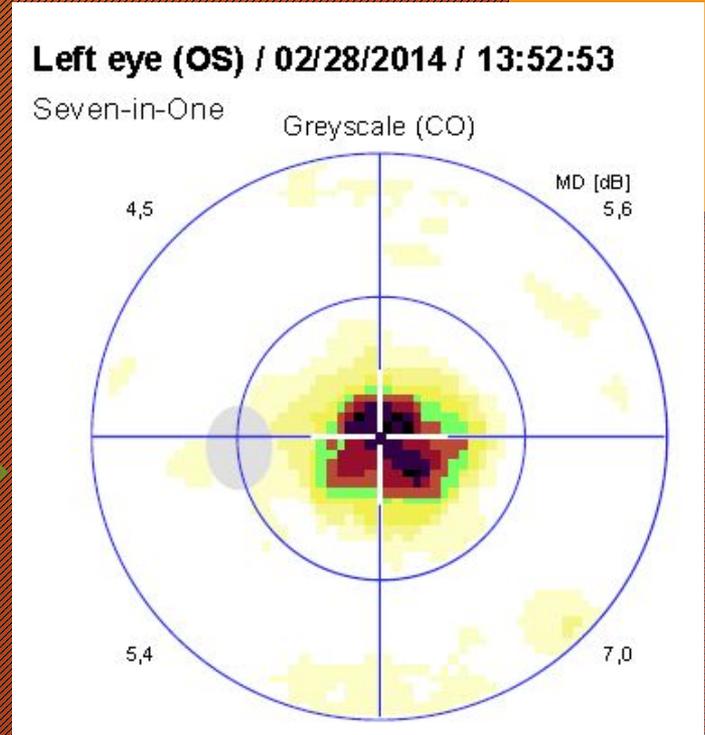


Visual acuity RE: 9/10 cc

Case #4



Visual acuity LE: 5/10 cc



Visual acuity LE: 5/10 cc

Case #4

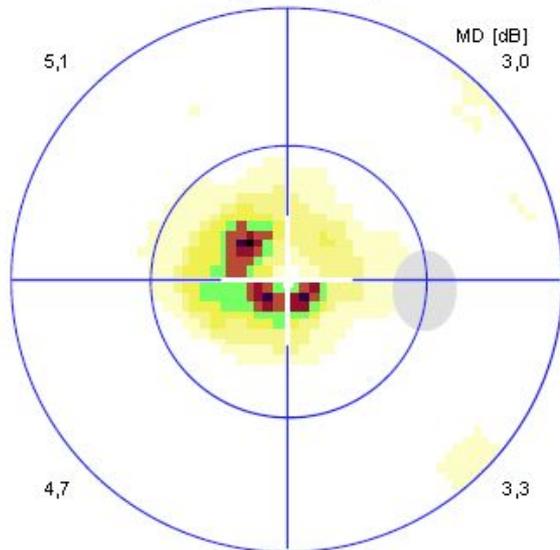
Patient received a third round of therapy in June 2014

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

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

Seven-in-One

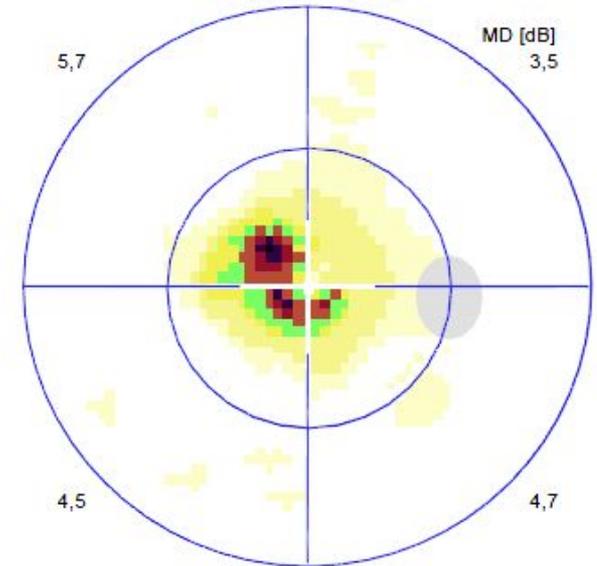
Greyscale (CO)



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

Seven-in-One

Greyscale (CO)



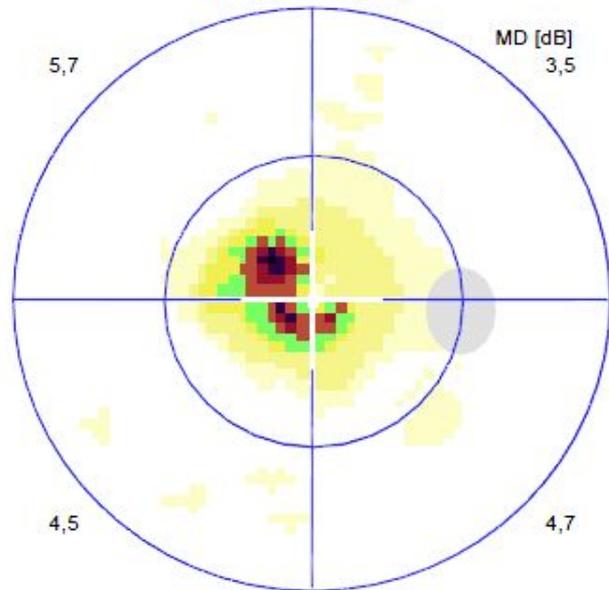
Visual acuity RE: 9/10 cc

Case #4

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

Seven-in-One

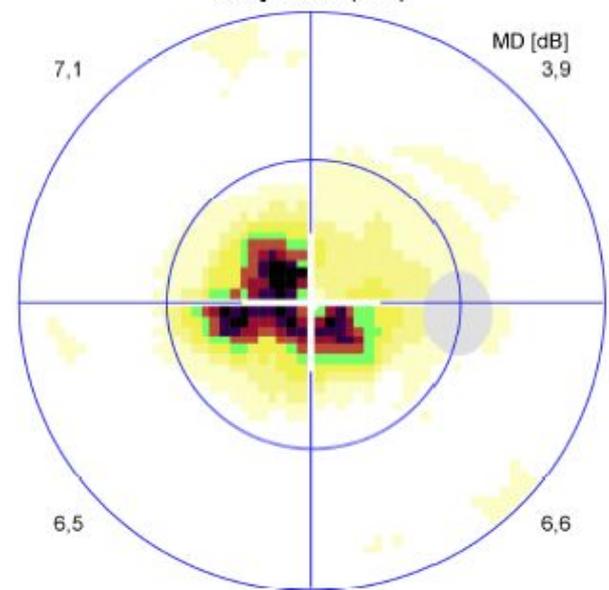
Greyscale (CO)



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

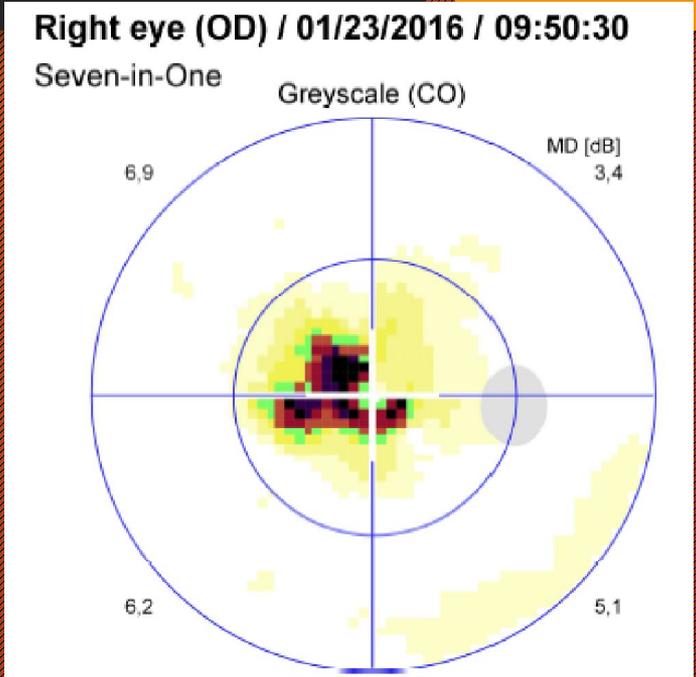
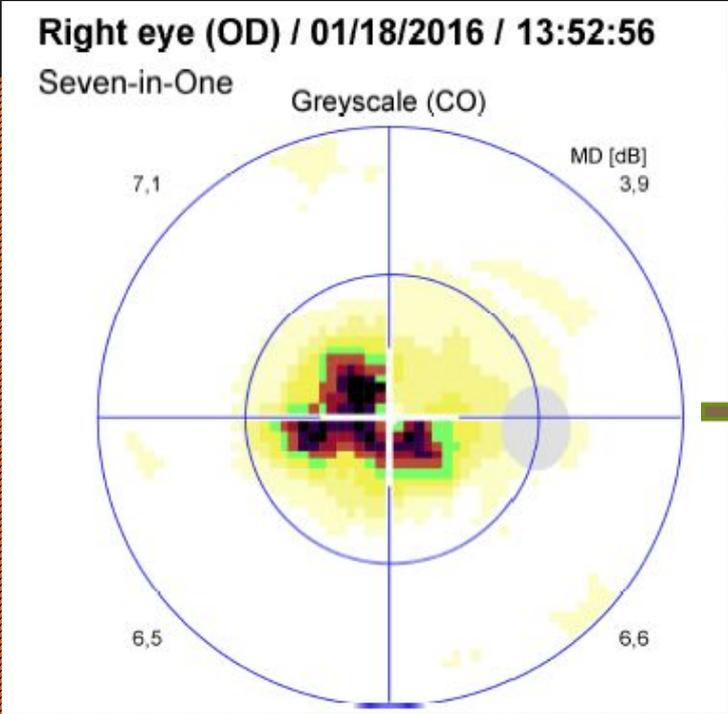
Seven-in-One

Greyscale (CO)



Visual acuity RE: 9/10 cc

Case #4

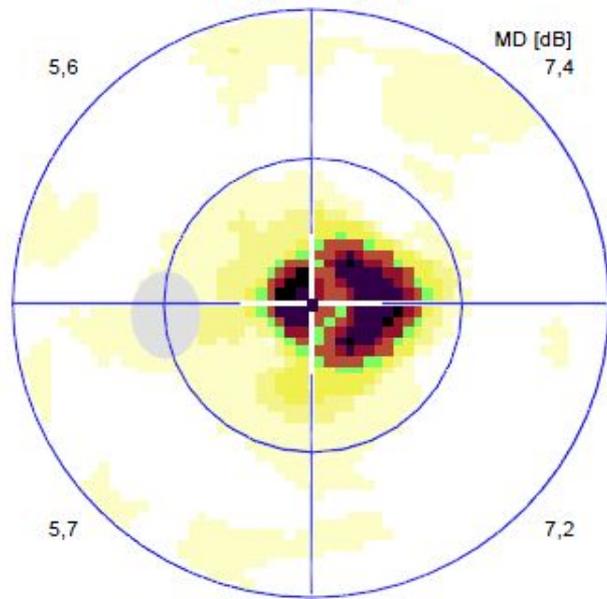


Case #4

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

Seven-in-One

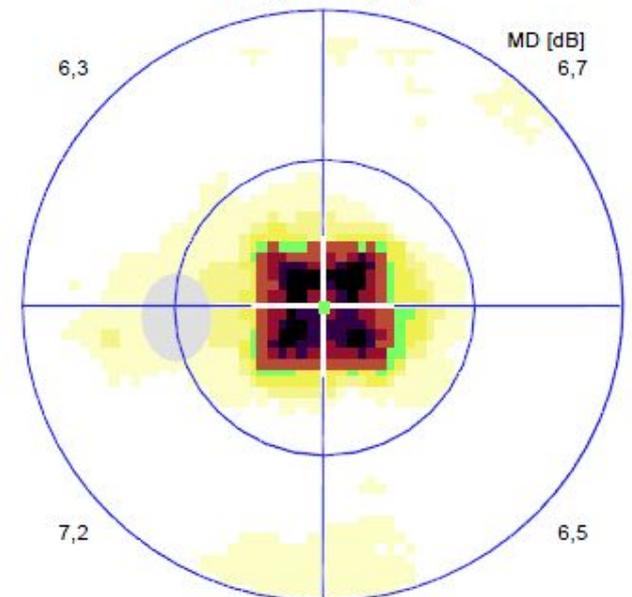
Greyscale (CO)



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

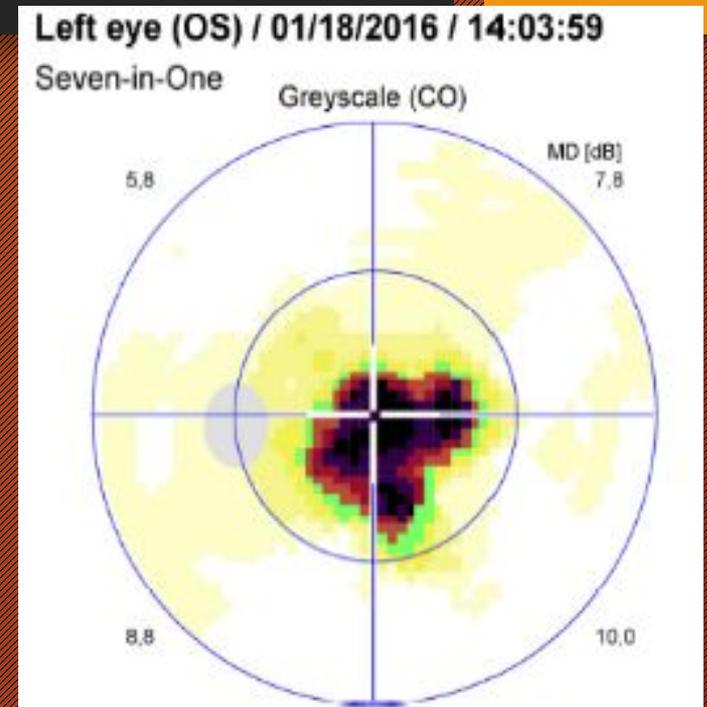
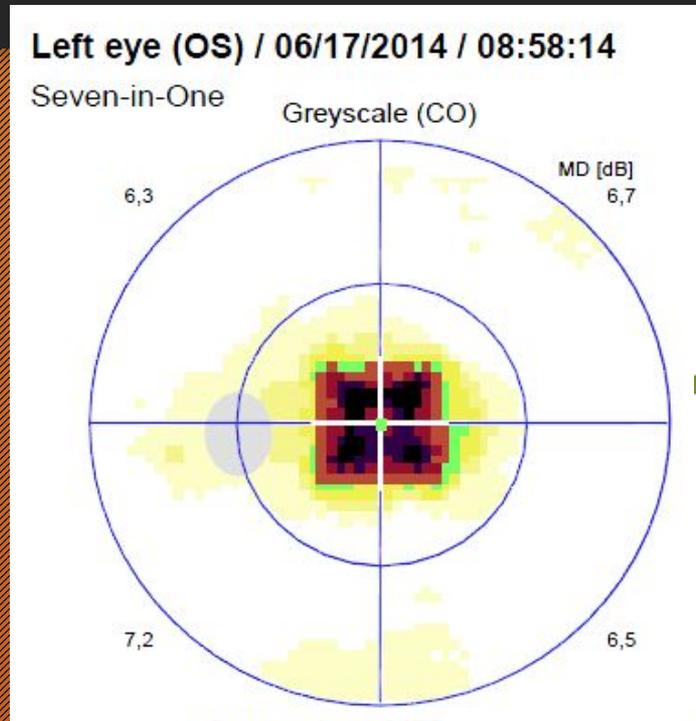
Seven-in-One

Greyscale (CO)



Visual acuity LE: 5/10 cc

Case #4

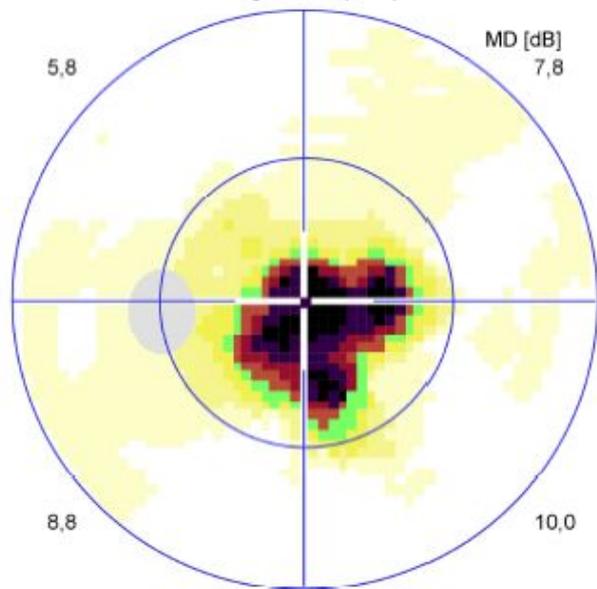


Case #4

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

Seven-in-One

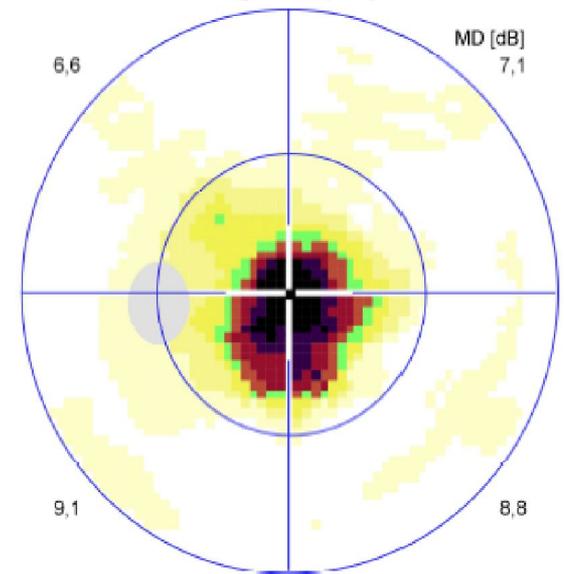
Greyscale (CO)



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

Seven-in-One

Greyscale (CO)



Case #4

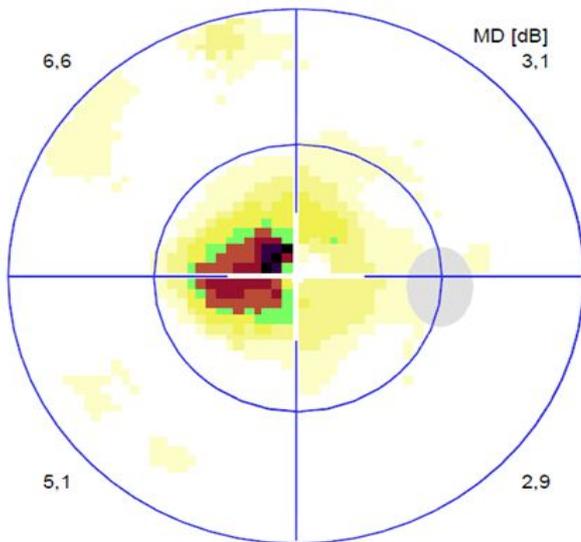
# Conclusion



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

Seven-in-One

Greyscale (CO)



Results?

*Improvement* for the right eye.

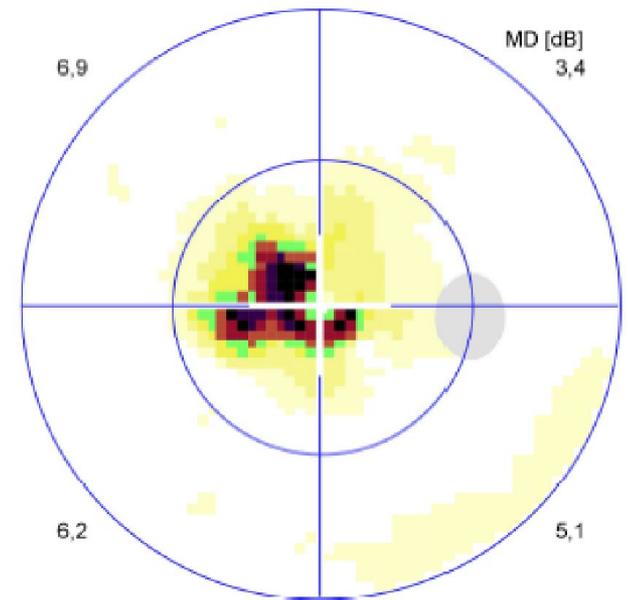
Visual acuity before any treatment: 7/10 cc.

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

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

Seven-in-One

Greyscale (CO)

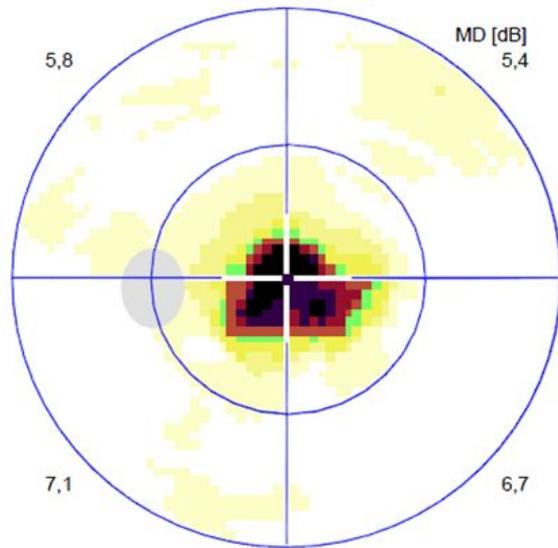


Case #4

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

Seven-in-One

Greyscale (CO)



# Conclusion



Results?

*Stabilization* for the left eye.

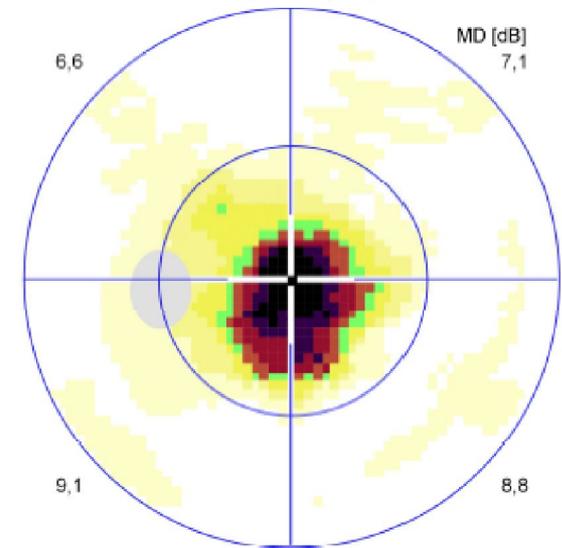
Visual acuity before any treatment: 3/10 cc

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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