Red Light and Visual Snow: An Unsolved Case Review

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Patient: Cynthia

Relevant History:

- NAION OS x 4 months
- Superior field loss, followed by inferior field loss
- Retinal detachment OS
- Development of constant white swirling objects OU
- 20/800 acuity remaining OS
- Significant peripheral motion sensitivity, dizziness, nausea
- Unable to drive, use escalator, or commute to work independently
- Multiple issues with her new spatial world and lack of depth perception

Goals:

- Driving ???
- Commute to work via metro
- Grocery shop/manage busy environments
- Tolerate digital devices/reading demand from work

Very afraid she will go blind….by losing vision in her right eye

Visual Snow???

Possible treatments:

- Filters
- Yoked prism
- Binasal occlusion
- Syntonics
- ???

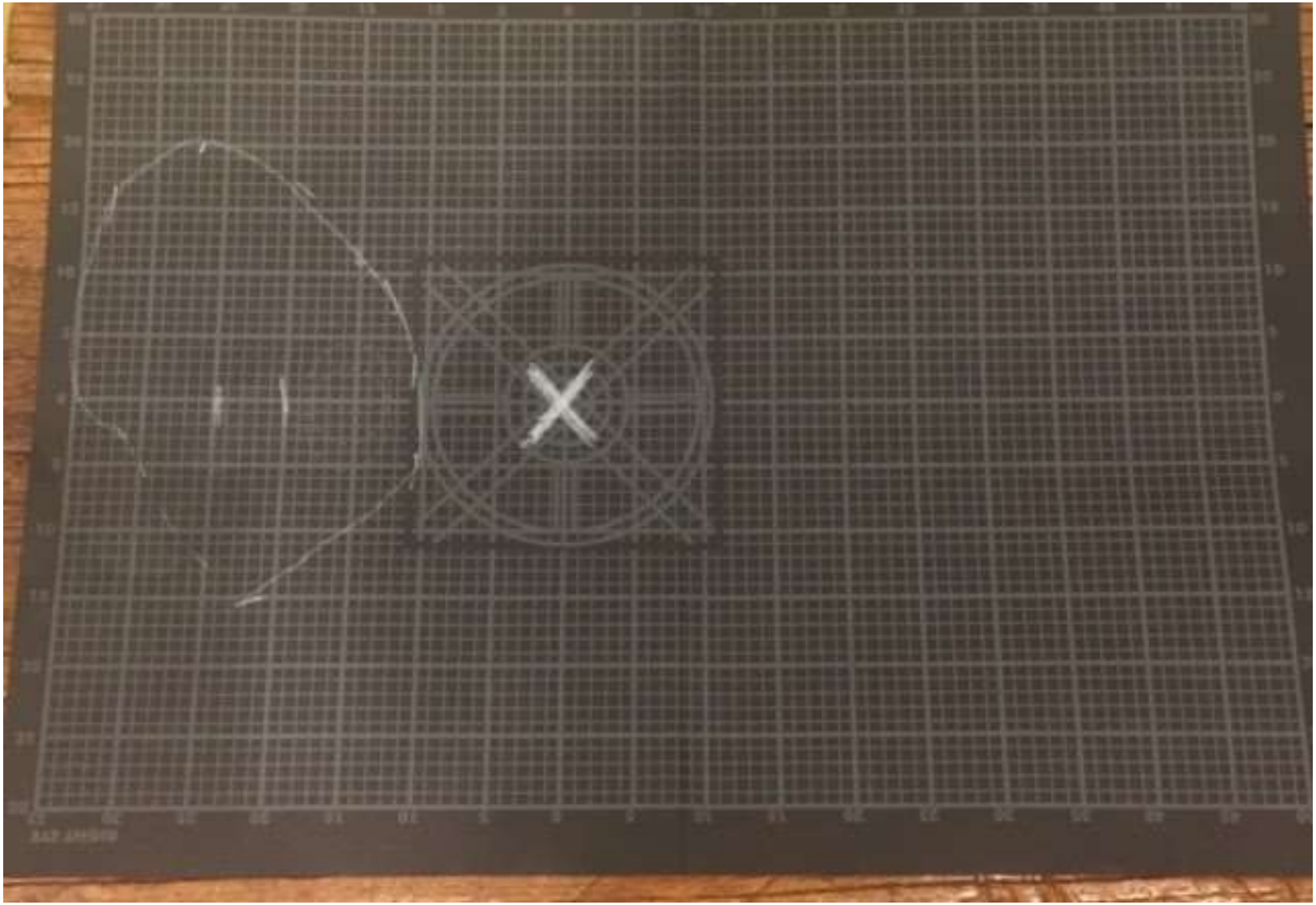
Treatment Protocol

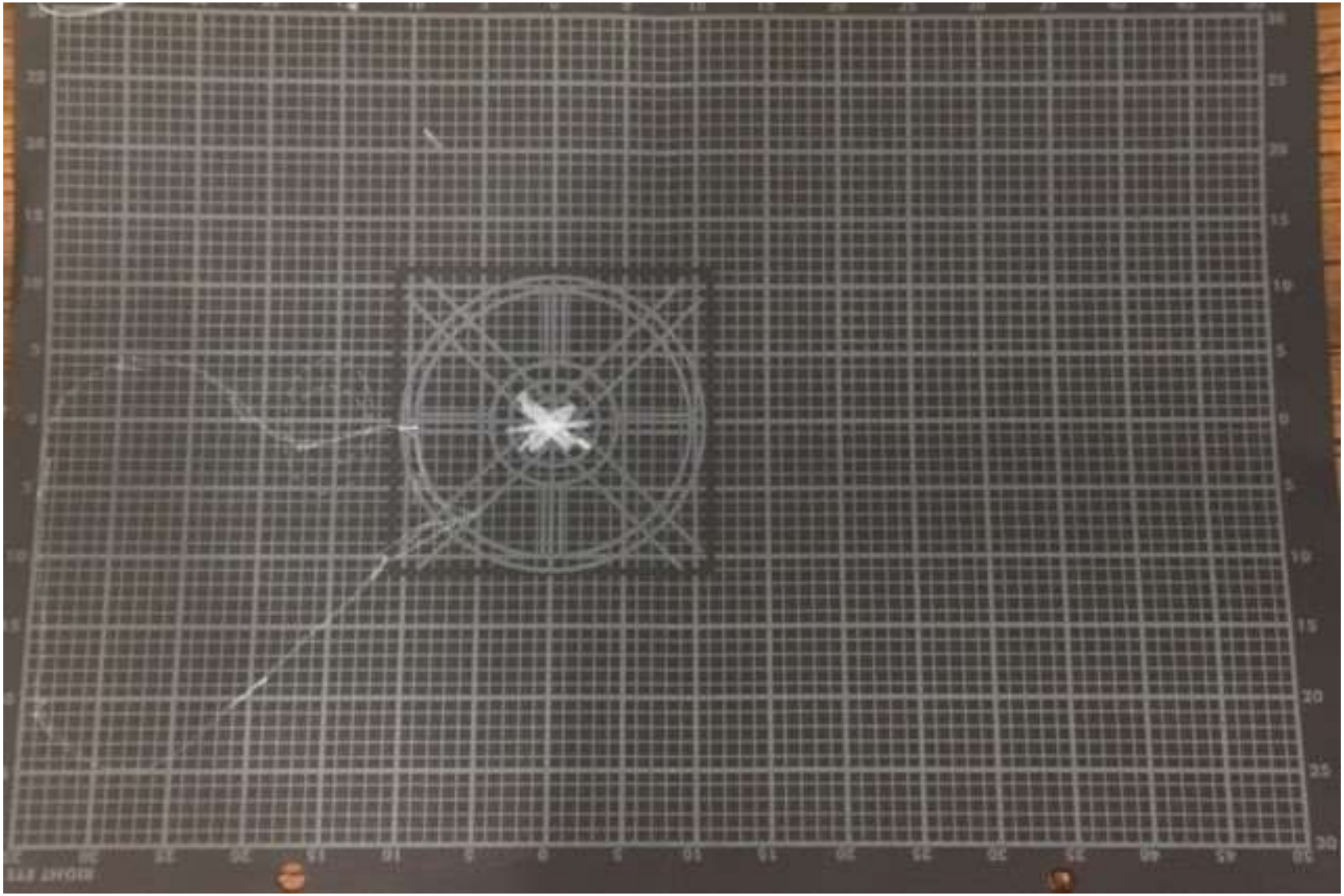
1. Visual Therapy:
   - Visual/vestibular integration
   - Peripheral awareness
   - Oculomotor
2. Yoked Prisms
3. Tints/Filters – some success but only 'dimmed' swirls
4. Syntonics: Delta OS/Theta OS 10 minutes per day

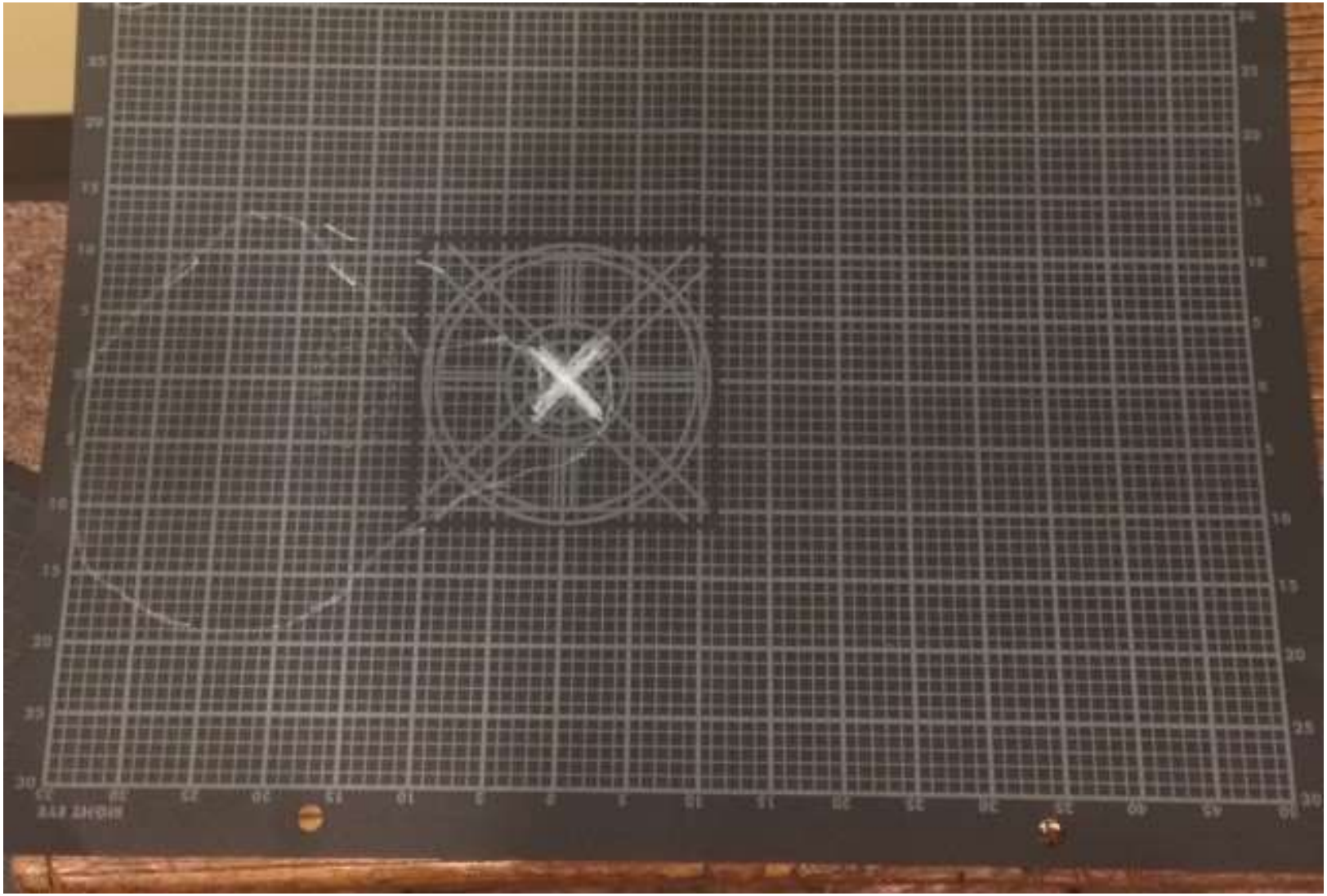
Progress Evaluation

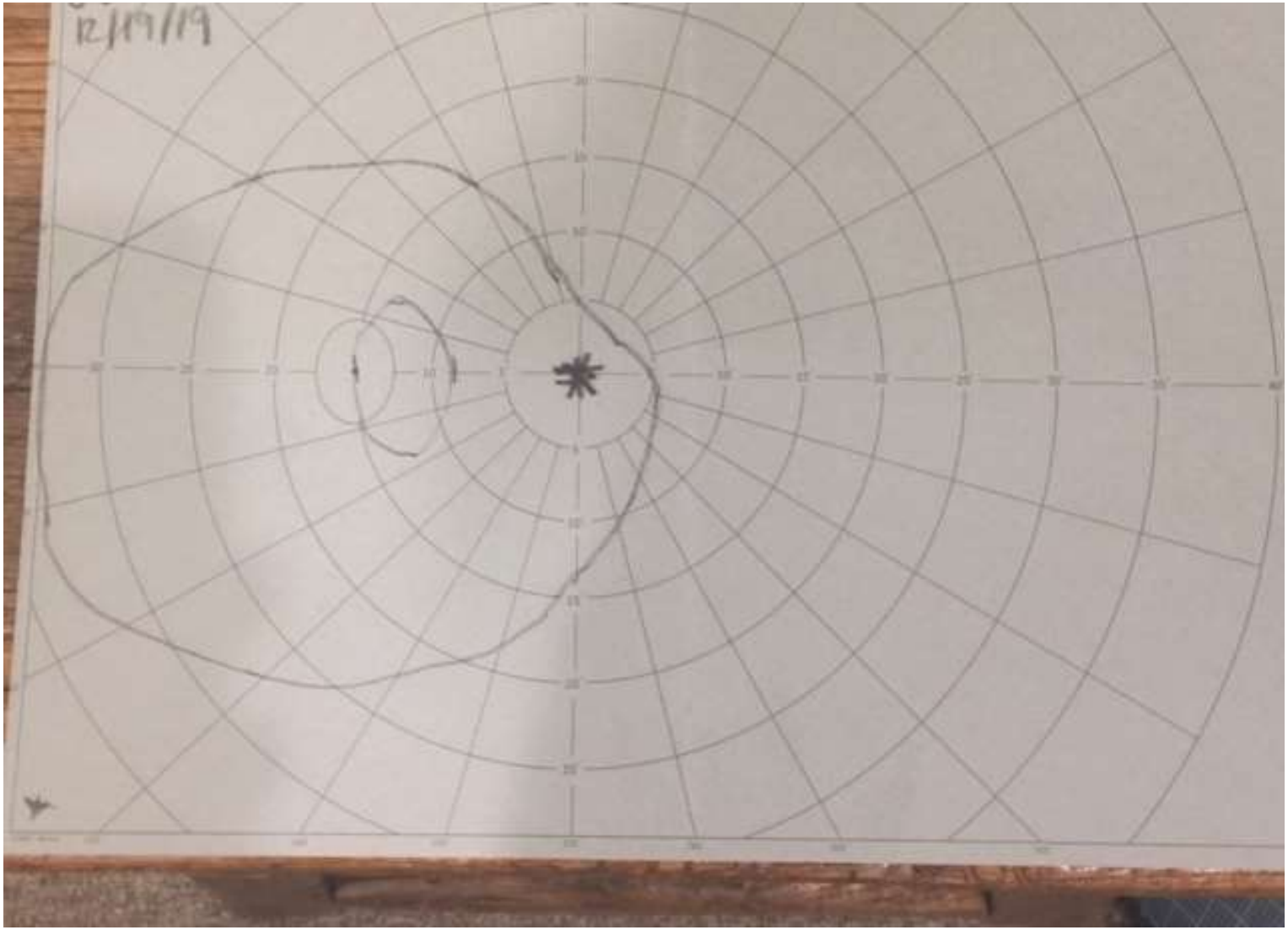
Cynthia completed 10 sessions of VT and 25 syntonic sessions.

- Less disorientation
- Feels she can see better OS – acuity improved to 20/200
- Aware of more on her left side – had good weeks and bad weeks








12/17/19

Salt Laser Therapy

660nm Red + 930nm Near Infared

20 minute treatment

Red Light Therapy

Infrared LED

- deep skin penetration
- increases blood flow and oxygen supply
- Increases collagen bundling, firming skin
- prevents formation of melanin

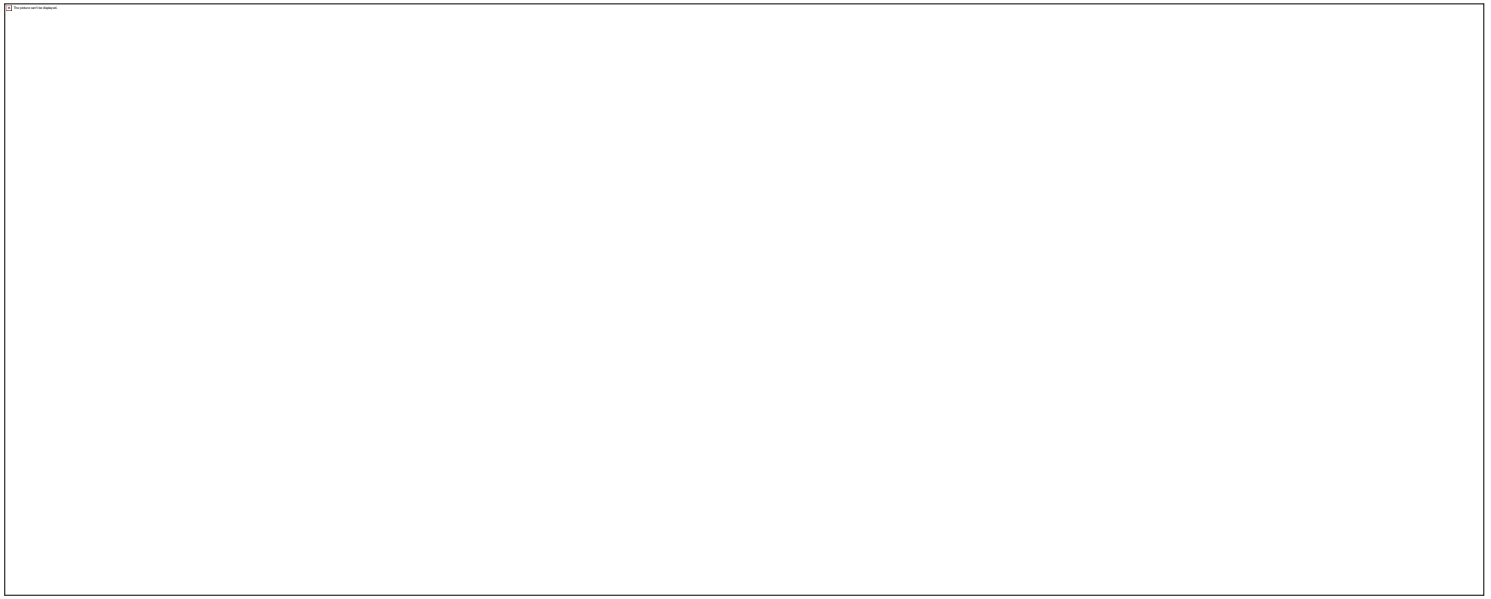
650nm LED

- Increases skin healing time

BEMER

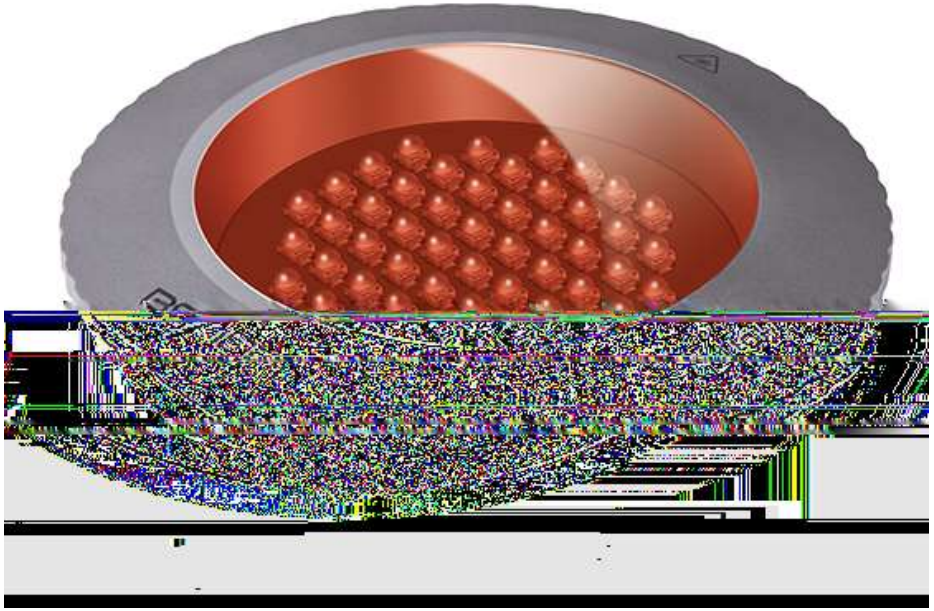
Bio Electro-Magnetic Energy Regulation

Pulsed electromagnetic field (PEMF)



BEMER B-Spot

660 nm Red light



Anadi Martel – Light Therapies

A Complete Guide to the Healing Powers of Light

Red light stimulates mitochrondria regeneration.

Neurons contain a high density of mitochondria, making them ideal candidates for photobiomodulation.

Researchers in China have found that red light treatments stimulate retinal regeneration in mice.

- Low and high dosages of red light were protective, while medium dosages damaging.

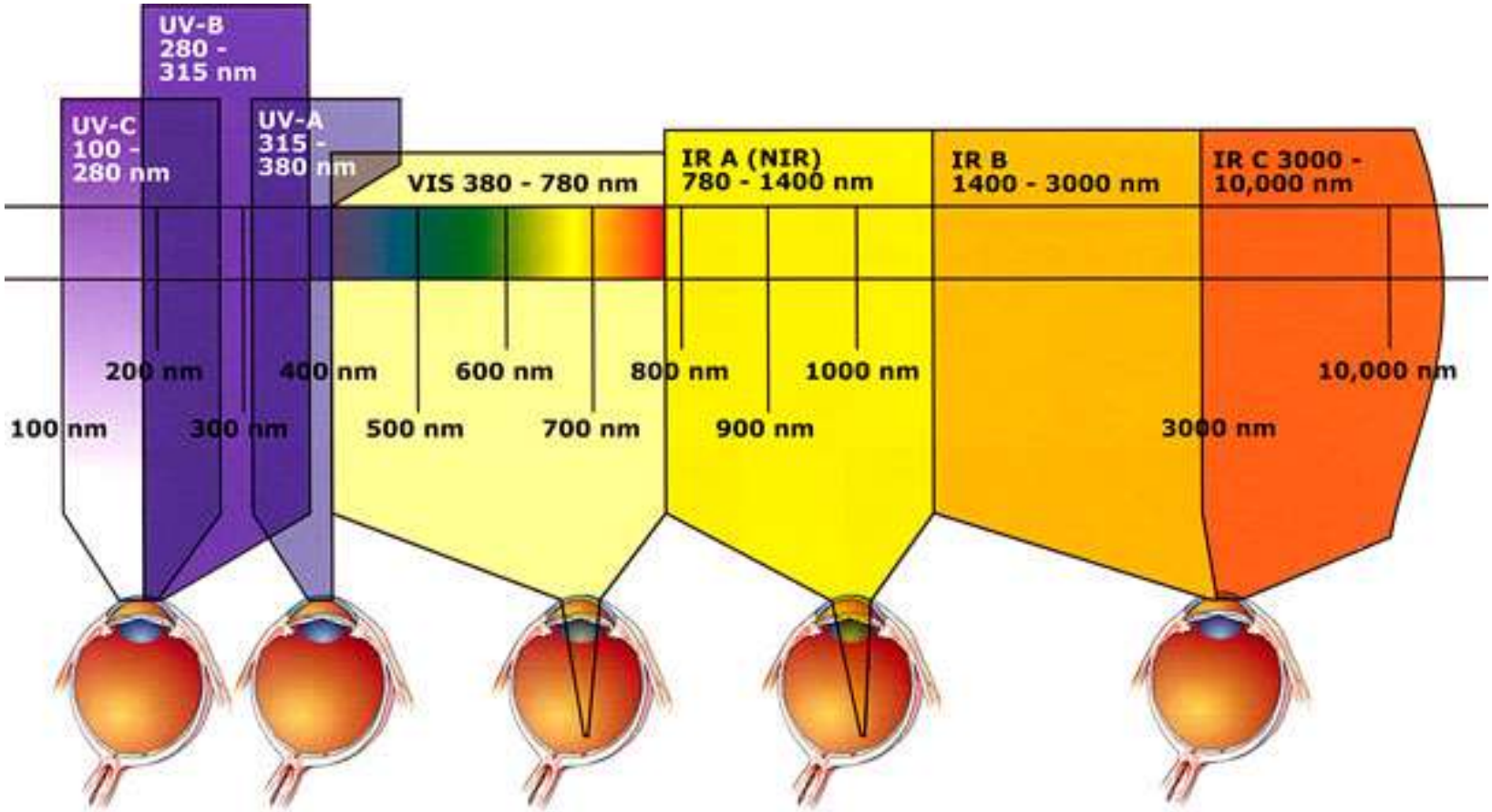


Figure 9. The above table shows the depth of penetration of electromagnetic radiation in the human eye.

Near Infared Laser Transmission (NILT)

- Research out of Harvard Medical School have found that 2-3% of near infared (820nm) penetrates the skull
  - TBI, acute ischemic stroke, neurodegenerative disease

Questions?/Answers?