

## PDT for CSC: What is the Appropriate Dose?

October 15, 2019

AAO 2019: Cases with a Point



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## Visudyne Label indications

- Predominantly classic CNV 2° AMD; pathologic myopia; or POHS
- Visudyne 6 mg/m<sup>2</sup> (body surface area)
- Light dose of 50 J/cm<sup>2</sup> at an intensity of 600 mW/cm<sup>2</sup>

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## Fluence (Watts x seconds / m<sup>2</sup>)

- Thermal laser **fluence is variable**
  - Watt
  - Seconds
  - Spot size

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## Fluence (Watts x seconds / m<sup>2</sup>)

- PDT **fluence is "fixed" (hard-wired)**
  - 600 mW / cm<sup>2</sup>
  - 83 seconds
  - **Spot size**

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## Several ways to achieve ½ fluence

- PDT **reduced (½) fluence**
  - 600 mW / cm<sup>2</sup> → 300 mW/cm<sup>2</sup>
  - 83 seconds
  - Spot size

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## Several ways to achieve ½ fluence

- PDT **reduced (½) fluence**
  - 600 mW / cm<sup>2</sup>
  - 83 seconds → 41.5 seconds
  - Spot size

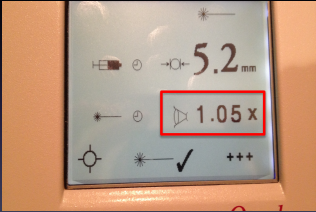
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### Several ways to achieve 1/2 fluence

- PDT reduced (1/2) fluence
  - 600 mW/cm<sup>2</sup>
  - 83 seconds
  - Spot size



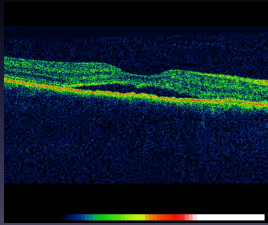
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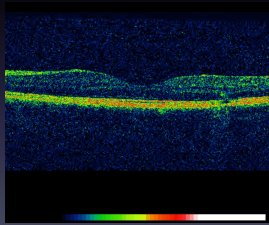
### 56 y/o F

↓'d Va OD x 2 years

Va OD 20/40

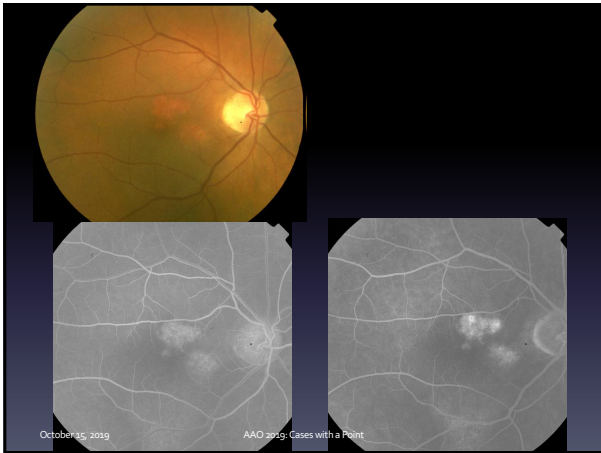


Va OS 20/20



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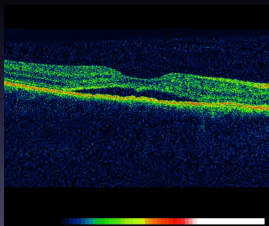
- PDT
  - 130# & 5' 7" → 5.0 cc ("Full" Dose)
  - 2 cc Visudyne
  - 50% watts x 83 seconds
  - 5.2 mm spot size

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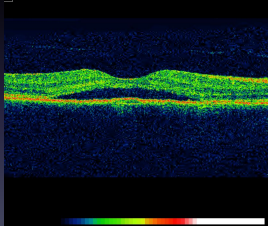
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### 40% Visudyne; 50% fluence

6/2/11 Va 20/40



7/7/11 Va 20/30

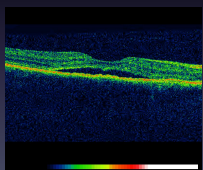


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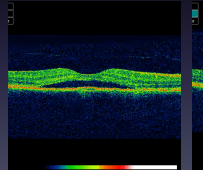
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### 60% Visudyne; 50% fluence

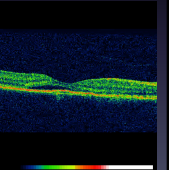
6/2/11 Va 20/40



7/7/11 Va 20/30

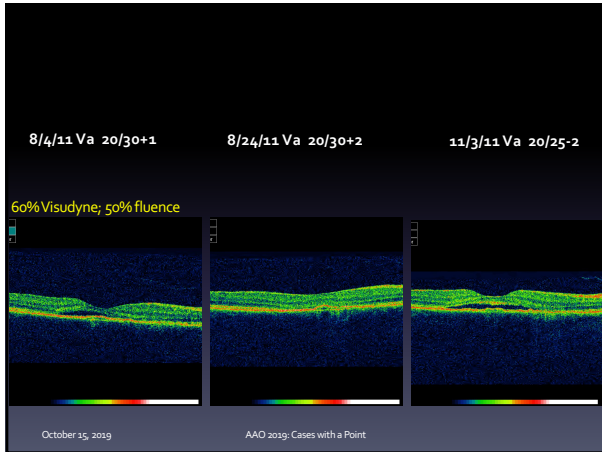


8/4/11 Va 20/30+1

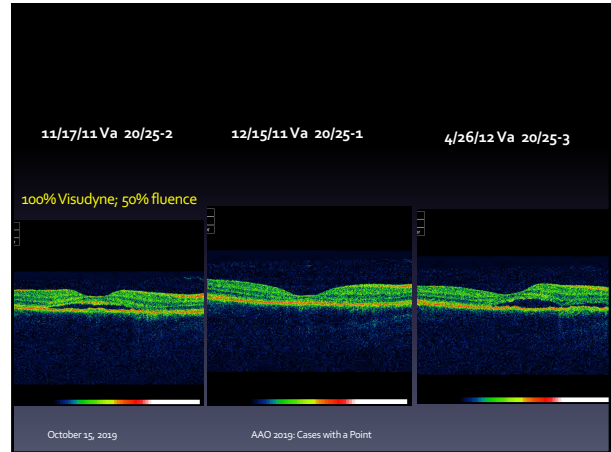


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### Summary

- Modifying the dose of Visudyne seems to affect the clinical response of CSC.
- Reduced fluence can be achieved in several ways.

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