OPHTHALMOLOGY

Clinical Case

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GLL, male, 23 years old, diagnosed with SC Hemoglobinopathy at 6 years of age.

Baseline Data:

Hb: 12.5 g/dL	WBC: 6290/mm³	Reticulocytes: 2.5%
Mild splenomegaly	Plt: 100,000 /mm³ (stable value)	

Previous history:

- 8 years old: Painful crisis.
- 9 years old:
  - 105 days hospitalized in the ICU for Acute Disseminated Myeloencephalitis (after pneumonia) with complex partial seizures/malnutrition. Received multiple transfusions.
  - Hospitalized for Acute Respiratory Insufficiency with pneumomediastinum, with severe sepsis. Received packed red blood cells.
  - Hospitalized for Pneumonia (*Mycoplasma*). Received packed red blood cells.

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Previous history:

- 11 years old: Procedure in the femoral neck after trauma (accident)
- 14 years old: Cholelithiasis. Reviewed by Ophthalmology (Normal retina / prescribed glasses).
- 16 years old: Seizures, without major complications.
- 21 years old: Cholelithiasis. Underwent uneventful cholecystectomy.
- 22 years old: Ophthalmology: Normal fundus.

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- **Jan 15th 2014: 23 years old, already being monitored by the PAE Project**

- **Ophthalmic history**
  - No ocular/visual complaints

- **Previous history**
  - Denied changes during previous eye exams

- **Refraction**
  - **OD:** -6.25
  - **OS:** -3.75

- **Intraocular pressure**
  - **OU:** 12mmHg

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- **Biomicroscopy**
  - **Eyelids:** within normal limits (WNL) OU
  - **Conjunctiva:** WNL, except for presence of comma-shaped vessels OU
  - **Anterior chamber:** clear OU
  - **Iris:** WNL OU
  - **Lens:** clear OU
  - **Anterior vitreous:** clear OU

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- **Fundus OU**
  - Optic disc slightly pale

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- **Fundus OU**
  - Pale/ischemic peripheral retina, with presence of gliotic regressed sea fans

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- **Fundus – aneritra (*red free*)**

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- **Fundus – *near infrared***

200 µm
19/08/1990
12/03/2014, OD
IR 55° [HR]
HEIDELBERG ENGINEERING

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- **Ocular ultrasound (*B-Scan*)**

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SD-OCT - OD

OPHTHALMOLOGY

SD-OCT - OS

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- Fluorescein Angiography
  - not performed because of difficulties in venous access

OPHTHALMOLOGY

- **Diagnosis**
  - **Proliferative Sickle Cell Retinopathy with spontaneous regression of sea fans OU**
  - **High Myopia**

- **Plan**
  - **Observation (q6 months) / reassurement**

Discussion