Analysis and grading of relevant cases by the Triage Team.

**Retmarker Screening Platform**

Retmarker automated analysis algorithms will process the patient images and automatically remove patients without signs of Diabetic Retinopathy lesions. When previous information is available, Retmarker automatically uses such data to automatically assess disease activity based on a proprietary biomarker.

Quality control measures are part of the solution and analysed periodically.

Retmarker is a Safe solution (sensitivity >=90%) that can remove the need for Human Grading in at least 50% of the patients in normal conditions (with qualified cameras, this value can increase up to approximately 75%).

**Images sent**

Images are securely sent over the Internet (preferably) to the Data center hosting the Retmarker technology. The Data center can be Local or Cloud-based.

Each Retmarker field station includes:

- State-of-art automated fundus camera from leading provider
- Visual Acuity measurement software
- Laptop with configured secure internet connection to send data

Our offer includes the training of field work technicians.

Automated grading of diabetic retinopathy may safely reduce the burden of grading patients in diabetic retinopathy screening programs. The novel two-step automated analysis system (Retmarker) offers improved sensitivity and specificity over published automated analysis systems.

in “Improved Automated Screening of Diabetic Retinopathy”, Ophthalmologica 2011
Retmarker Technology and Operating Model allows the implementation of highly reliable and efficient Diabetic Retinopathy Screening programs, at an extremely low cost.

According to the International Diabetes Federation, 366 million people have diabetes (2011) and by 2030 this will have risen to 552 million. Overtime all of them will develop complications.

Up to 80% of diabetics who have had the disease for 10 years or more are affected by Diabetic Retinopathy.

The best medical practices indicates that all patients with diabetes should make a screening of Diabetic Retinopathy at least once a year.

About Critical Health
Retmarker is a mathematical algorithm that automatically analyses color fundus photographs and identifies diabetics in risk of progression of Diabetic Retinopathy.

Retmarker is patented and a class IIa medical device. Retmarker is a unique solution that is being developed and fine-tuned for more than 5 years.

Retmarker is developed in a startup from the Critical Software (www.criticalsoftware.com) Group, a Coimbra’s University spin-off, based in Coimbra (Portugal) with operations in 8 different countries.

Retmarker is developed with AIBILI (Portugal, www.aibili.pt), the prestigious Ophthalmology Research Institute created and led by Professor José Cunha-Vaz.

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