

# OFAM

## OCULAR FLARE METER DEVICE

### WHAT IS OFAM?

OFAM is a non-contact Ocular Flare Meter device that measures total protein concentrations in the anterior chamber of the eye. The device provides objective measurements of ocular inflammation (Uveitis), enabling timely management of patients and objective measures of therapeutic response.



### WHY IS OFAM NEEDED?

Uveitis, a leading cause of blindness, results from the breakdown of the blood-eye-barrier (BEB) that manifests through leakage of proteins and cells into the aqueous humor. Clinically, the most widely used criteria for evaluating the severity of uveitis is the subjective measurement of aqueous humor turbidity (also known as aqueous flare) and the subjective estimates of cells in the anterior chamber. Unfortunately, the inter-examiner reliability of the subjective method is poor. Therefore, there is an urgent unmet need for the OFAM device, as it provides a rapid, low cost, sensitive, noninvasive method of quantifying ocular inflammation.

### HOW DOES OFAM WORK?

OFAM is based on Rayleigh-scattering, which measures light scattering in the aqueous humor of the anterior chamber in response to non-laser light sources. Rayleigh scattering refers to the elastic scattering of light by interaction with particles (proteins and small molecules).

### WHAT MAKES OFAM DIFFERENT?

OFAM is a portable, inexpensive, non-invasive optical platform technology for ocular flare measurement. It has unparalleled sensitivity and is capable of reliably distinguishing flare score of 0.0, 0.5, 1+ and 2+.

National Eye Institute/NIH Ofam II - 2R44EY022548-02A1/5R44EY022548-03 Program Official: WUJEK, JEROME