

OPPAH

OCULAR PENETRATING/PERFORATING INJURIES ASSESSMENT HYDROGEL

WHAT IS OPPAH?

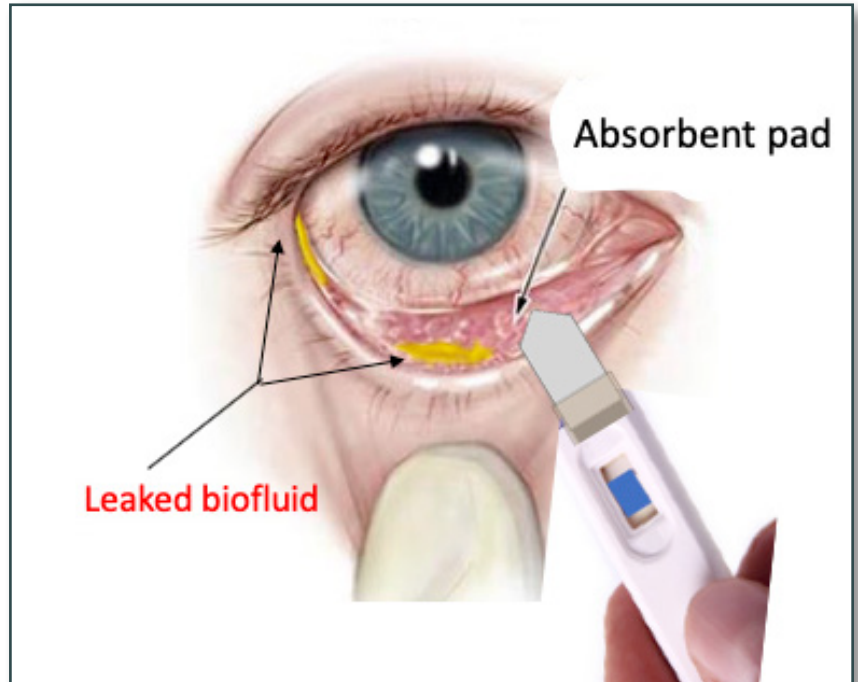
OPPAH is a compact, disposable, low-cost, and noninvasive cellulose-based lateral flow strip that uses a colorimetric visual indicator to rapidly identify open-globe injuries.

WHY IS OPPAH NEEDED?

Open-globe injuries require immediate medical assessment and vision saving treatments to reduce the rate of vision loss. Currently patients are referred to an ophthalmologist to identify open-globe injuries. Ophthalmologists perform a series of eye exams, including the Seidel test with slit lamp or a computed tomography (CT) scan. Unfortunately, both the Seidel test and CT scan require bulky instruments, which make them unsuitable for use during Role 1 battlefield triage. Thus, there is an urgent need for a rapid, point of care, single-step assessment test of penetrating/perforating injuries.

HOW DOES OPPAH WORK?

In order to identify open-globe injury, OPPAH samples biofluid on the eyelashes or conjunctival sac. If the concentration of a



specific biomarker in the sampled fluid is significantly higher than non-ocular biofluids (e.g. blood, tears, and sweat), then OPPAH will visually indicate its presence .

WHAT MAKES OPPAH DIFFERENT?

To date, there are no products on the market that rapidly and safely identify presence of perforating ocular injury in a point-of-care setting. OPPAH enables rapid (< 30 seconds) point-of-care sampling of ocular biofluid (<40 μ L) on eyelashes or conjunctival sac during a suspected open-globe injury.

DHA, Contract no. W81XWH-19-C-001; 12/17/2018-06/16/2019
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