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Treatments for dry eye disease: A comparison analysis

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Description: e purpose of this meeting is to examine and discuss the evidence-based comparisons of the current treatments for Dry Eye Disease (DED).

Introduction: Dry Eye Disease (DED) e ects up to 30% of the global population (2.25 Billion people) and this in ammatory condition of ocular surfaces has symptoms of visual disturbances, eye discomfort, tear Im instability, etc. In the United States the average cost of treating this anomaly is over \$6,500 with incidence rate of up to 20 million patients. is meeting will discuss three primary treatments of Cyclosporine 5%, Li tegrast, and studies showing signi cance and di erences between these treatments. A recent Systematic Review with meta-analysis was conducted on studies of Topical Cyclosporine 5% (Restasi Allergan, Inc., Irvine, CA). e 12 studies (mean 25 weeks) included 629 subjects receiving treatment of Restasis. e outcome measure shared between these studies was the Schirmer #1 test and the mean score reduction was 2.7mm. A retrospective control study was conducted, measuring e cacy of Li tegrast (Xiidra® Shire, Inc. Lexington, MA) versus other treatments in over 2,000 eyes. e mechanism of action is di erent than Cyclosporine because Li tegrast reduces ocular in ammation as an integrin antagonist that blocks binding of ICAM-1 to LFA-1 on the T-cell surfaces. Testing in this investigation was accomplished with Schirmer's tests, Corneal staining, and tear Im Break Up Time (tBUT) in di erent sub populations. Even with di erent testing mechanisms, these Li tegrast patients showed signi cant changes, particularly in short-term follow ups.

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