

CLINICAL PAYMENT AND CODING POLICY

If a conflict arises between a Clinical Payment and Coding Policy (CPCP) and any plan document under which a member is entitled to Covered Services, the plan document will govern. If a conflict arises between a CPCP and any provider contract pursuant to which a provider participates in and/or provides Covered Services to eligible member(s) and/or plans, the provider contract will govern. "Plan documents" include, but are not limited to, Certificates of Health Care Benefits, benefit booklets, Summary Plan Descriptions, and other coverage documents. BCBSTX may use reasonable discretion interpreting and applying this policy to services being delivered in a particular case. BCBSTX has full and final discretionary authority for their interpretation and application to the extent provided under any applicable plan documents.

Providers are responsible for submission of accurate documentation of services performed. Providers are expected to submit claims for services rendered using valid code combinations from Health Insurance Portability and Accountability Act (HIPAA) approved code sets. Claims should be coded appropriately according to industry standard coding guidelines including, but not limited to: Uniform Billing (UB) Editor, American Medical Association (AMA), Current Procedural Terminology (CPT®), CPT® Assistant, Healthcare Common Procedure Coding System (HCPCS), ICD-10 CM and PCS, National Drug Codes (NDC), Diagnosis Related Group (DRG) guidelines, Centers for Medicare and Medicaid Services (CMS) National Correct Coding Initiative (NCCI) Policy Manual, CCI table edits and other CMS guidelines.

Claims are subject to the code edit protocols for services/procedures billed. Claim submissions are subject to claim review including but not limited to, any terms of benefit coverage, provider contract language, medical policies, clinical payment and coding policies as well as coding software logic. Upon request, the provider is urged to submit any additional documentation.

Evaluation of Dry Eyes

Policy Number: CPCPLAB043

Version 1.0

Enterprise Medical Policy Committee Approval Date: 1/25/2022

Plan Effective Date: May 1, 2022

Description

BCBSTX has implemented certain lab management reimbursement criteria. Not all requirements apply to each product. Providers are urged to review Plan documents for eligible coverage for services rendered.

Reimbursement Information:

1. Testing of tear osmolarity in patients suspected of having dry eye **may be reimbursable** to aid in determining the severity of dry eye disease as well as monitor effectiveness of therapy.

2. Testing for MMP-9 protein in human tears **is not reimbursable** to aid in the diagnosis of patients suspected of having dry eye disease based on comprehensive eye examination.
3. Testing for lactoferrin and/or IgE to aid in the diagnosis of patients suspected of having dry eye disease **is not reimbursable**.
4. All other testing used in the diagnosis of patients suspected of having dry eye disease **is not reimbursable**.

Procedure Codes

Codes
82785, 83516, 83520, 83861

References:

Akpek, E. K., Amescua, G., Farid, M., Garcia-Ferrer, F. J., Lin, A., Rhee, M. K., . . . Mah, F. S. (2018). Dry Eye Syndrome Preferred Practice Pattern. *Ophthalmology*. doi:10.1016/j.optha.2018.10.023

AOA. (2010). Care of the Patient with Ocular Surface Disorders. Retrieved from <https://www.aoa.org/documents/optometrists/CPG-10.pdf>

ATD. (2016a). Retrieved from <https://advancedteardiagnosics.com/wp/wp-content/uploads/2016/04/Lf-Data-Sheet-TearScan-04262016.pdf>

ATD. (2016b). TearScan™ 270 MicroAssay System. Retrieved from <https://www.advancedteardiagnosics.com/wp/order/>

Baenninger, P. B., Voegeli, S., Bachmann, L. M., Faes, L., Iselin, K., Kaufmann, C., & Thiel, M. A. (2018). Variability of Tear Osmolarity Measurements With a Point-of-Care System in Healthy Subjects-Systematic Review. *Cornea*, 37(7), 938-945. doi:10.1097/ico.0000000000001562

Brissette, A. R., Drinkwater, O. J., Bohm, K. J., & Starr, C. E. (2019). The utility of a normal tear osmolarity test in patients presenting with dry eye disease like symptoms: A prospective analysis. *Cont Lens Anterior Eye*, 42(2), 185-189. doi:10.1016/j.clae.2018.09.002

Chan, T. C., Ye, C., Chan, K. P., Chu, K. O., & Jhanji, V. (2016). Evaluation of point-of-care test for elevated tear matrix metalloproteinase 9 in post-LASIK dry eyes. *Br J Ophthalmol*, 100(9), 1188-1191. doi:10.1136/bjophthalmol-2015-307607

Chotikavanich, S., de Paiva, C. S., Li de, Q., Chen, J. J., Bian, F., Farley, W. J., & Pflugfelder, S. C. (2009). Production and activity of matrix metalloproteinase-9 on the ocular surface increase in dysfunctional tear syndrome. *Invest Ophthalmol Vis Sci*, 50(7), 3203-3209. doi:10.1167/iovs.08-2476

- Craig, J. P., Nelson, J. D., Azar, D. T., Belmonte, C., Bron, A. J., Chauhan, S. K., . . . Sullivan, D. A. (2017). TFOS DEWS II Report Executive Summary. *Ocul Surf*, 15(4), 802-812. doi:10.1016/j.jtos.2017.08.003
- Craig, J. P., Nichols, K. K., Alpek, M. D., Caffery, B., Dua, H. S., Joo, C. K., . . . Stapleton, F. J. (2017). TFOS DEWS II Definition and Classification Report. *Ocul Surf*, 15(4), 276-283. doi:10.1016/j.jtos.2017.08.003
- Dana, R., Meunier, J., Markowitz, J. T., Joseph, C., & Siffel, C. (2020). Patient-Reported Burden of Dry Eye Disease in the United States: Results of an Online Cross-Sectional Survey. *Am J Ophthalmol*, 216, 7-17. doi:10.1016/j.ajo.2020.03.044
- Ezuddin, N. S., Alawa, K. A., & Galor, A. (2015). Therapeutic Strategies to Treat Dry Eye in an Aging Population. *Drugs Aging*, 32(7), 505-513. doi:10.1007/s40266-015-0277-6
- Farrand, K. F., Fridman, M., Stillman, I. O., & Schaumberg, D. A. (2017). Prevalence of Diagnosed Dry Eye Disease in the United States Among Adults Aged 18 Years and Older. *Am J Ophthalmol*, 182, 90-98. doi:10.1016/j.ajo.2017.06.033
- FDA. (1993, 11/19/2018). K934473. Retrieved from <https://www.accessdata.fda.gov/scripts/cdrh/devicesatfda/index.cfm?db=pmn&id=K934473>
- FDA. (2013). Retrieved from https://www.accessdata.fda.gov/cdrh_docs/pdf13/K132066.pdf
- Foulks, G. N., Forstot, S. L., Donshik, P. C., Forstot, J. Z., Goldstein, M. H., Lemp, M. A., . . . Jacobs, D. S. (2015). Clinical guidelines for management of dry eye associated with Sjögren disease. *Ocul Surf*, 13(2), 118-132. doi:10.1016/j.jtos.2014.12.001
- Holland, E. J., Darvish, M., Nichols, K. K., Jones, L., & Karpecki, P. M. (2019). Efficacy of topical ophthalmic drugs in the treatment of dry eye disease: A systematic literature review. *Ocul Surf*, 17(3), 412-423. doi:10.1016/j.jtos.2019.02.012
- Honda, N., Miyai, T., Nejima, R., Miyata, K., Mimura, T., Usui, T., . . . Amano, S. (2010). Effect of latanoprost on the expression of matrix metalloproteinases and tissue inhibitor of metalloproteinase 1 on the ocular surface. *Arch Ophthalmol*, 128(4), 466-471. doi:10.1001/archophthalmol.2010.40
- Jie, Y., Sella, R., Feng, J., Gomez, M. L., & Afshari, N. A. (2019). Evaluation of incomplete blinking as a measurement of dry eye disease. *Ocul Surf*, 17(3), 440-446. doi:10.1016/j.jtos.2019.05.007
- Jun JH, L. Y., Son MJ, Kim H (2020). Importance of tear volume for positivity of tear matrix metalloproteinase-9 immunoassay. *PLoS ONE*, 15(7). Retrieved from <https://doi.org/10.1371/journal.pone.0235408>
- Kanellopoulos, A. J., & Asimellis, G. (2016). In pursuit of objective dry eye screening clinical techniques. *Eye Vis (Lond)*, 3, 1. doi:10.1186/s40662-015-0032-4
- Kawashima, M., Kawakita, T., Inaba, T., Okada, N., Ito, M., Shimmura, S., . . . Tsubota, K. (2012). Dietary lactoferrin alleviates age-related lacrimal gland dysfunction in mice. *PLoS ONE*, 7(3), e33148. doi:10.1371/journal.pone.0033148

Messmer, E. M. (2015). The pathophysiology, diagnosis, and treatment of dry eye disease. *Dtsch Arztebl Int*, 112(5), 71-81; quiz 82. doi:10.3238/arztebl.2015.0071

Messmer, E. M., von Lindenfels, V., Garbe, A., & Kampik, A. (2016). Matrix Metalloproteinase 9 Testing in Dry Eye Disease Using a Commercially Available Point-of-Care Immunoassay. *Ophthalmology*, 123(11), 2300-2308. doi:10.1016/j.optha.2016.07.028

Milner, M. S., Beckman, K. A., Luchs, J. I., Allen, Q. B., Awdeh, R. M., Berdahl, J., . . . Yeu, E. (2017). Dysfunctional tear syndrome: dry eye disease and associated tear film disorders - new strategies for diagnosis and treatment. *Curr Opin Ophthalmol*, 27 Suppl 1(Suppl 1), 3-47. doi:10.1097/01.icu.0000512373.81749.b7

Periman. (2020). The Immunological Basis of Dry Eye Disease and Current Topical Treatment Options. *Journal of Ocular Pharmacology and Therapeutics*, 36(3), 137-146. doi:10.1089/jop.2019.0060

Ponzini, E., Scotti, L., Grandori, R., Tavazzi, S., & Zambon, A. (2020). Lactoferrin Concentration in Human Tears and Ocular Diseases: A Meta-Analysis. *Invest Ophthalmol Vis Sci*, 61(12), 9. doi:10.1167/iovs.61.12.9

Sambursky, R., Davitt, W. F., 3rd, Latkany, R., Tauber, S., Starr, C., Friedberg, M., . . . McDonald, M. (2013). Sensitivity and specificity of a point-of-care matrix metalloproteinase 9 immunoassay for diagnosing inflammation related to dry eye. *JAMA Ophthalmol*, 131(1), 24-28. doi:10.1001/jamaophthalmol.2013.561

Shtein, R. (2020). Dry Eyes *UpToDate*. Retrieved from https://www.uptodate.com/contents/dry-eyes?source=search_result&search=dry%20eye&selectedTitle=1~150#H12

Starr, C. E., Gupta, P. K., Farid, M., Beckman, K. A., Chan, C. C., Yeu, E., . . . Mah, F. S. (2019). An algorithm for the preoperative diagnosis and treatment of ocular surface disorders. *J Cataract Refract Surg*, 45(5), 669-684. doi:10.1016/j.jcrs.2019.03.023

Szczotka-Flynn, L. B., Maguire, M. G., Ying, G. S., Lin, M. C., Bunya, V. Y., Dana, R., & Asbell, P. A. (2019). Impact of Dry Eye on Visual Acuity and Contrast Sensitivity: Dry Eye Assessment and Management Study. *Optom Vis Sci*, 96(6), 387-396. doi:10.1097/OPX.0000000000001387

Tashbayev, B., Utheim, T. P., Utheim, Ø. A., Ræder, S., Jensen, J. L., Yazdani, M., . . . Chen, X. (2020). Utility of Tear Osmolarity Measurement in Diagnosis of Dry Eye Disease. *Scientific Reports*, 10(1), 5542. doi:10.1038/s41598-020-62583-x

TearLab. (2009). TearLab. Retrieved from <https://www.tearlab.com/>

Tomlinson, A., Khanal, S., Ramaesh, K., Diaper, C., & McFadyen, A. (2006). Tear film osmolarity: determination of a referent for dry eye diagnosis. *Invest Ophthalmol Vis Sci*, 47(10), 4309-4315. doi:10.1167/iovs.05-1504

Versura, P., Bavelloni, A., Grillini, M., Fresina, M., & Campos, E. C. (2013). Diagnostic performance of a tear protein panel in early dry eye. *Mol Vis*, 19, 1247-1257.

Willcox, M. D. P., Argüeso, P., Georgiev, G. A., Holopainen, J. M., Laurie, G. W., Millar, T. J., . . .
Jones, L. (2017). TFOS DEWS II Tear Film Report. *Ocul Surf*, 15(3), 366-403.
doi:10.1016/j.jtos.2017.03.006

Policy Update History:

5/1/2022	New policy
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