

If a conflict arises between a Clinical Payment and Coding Policy 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. Blue Cross and Blue Shield of New Mexico may use reasonable discretion interpreting and applying this policy to services being delivered in a particular case. BCBSNM 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 approved code sets. Claims should be coded appropriately according to industry standard coding guidelines including, but not limited to: Uniform Billing Editor, American Medical Association, Current Procedural Terminology, CPT® Assistant, Healthcare Common Procedure Coding System, ICD-10 CM and PCS, National Drug Codes, Diagnosis Related Group guidelines, Centers for Medicare and Medicaid Services National Correct Coding Initiative 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.

# **Celiac Disease Testing**

**Policy Number: CPCPLAB017** 

Version 1.0

Approval Date: October 30, 2024

Plan Effective Date: January 15, 2025

## **Description**

BCBSNM 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. For individuals who have been diagnosed with celiac disease and who are IgA sufficient, serologic testing with IgA anti-tissue transglutaminase (TTG) **may be reimbursable** at the following intervals:
  - At the first follow-up visit 3 to 6 months after diagnosis;
  - Every 6 months until normalization of anti-TTG levels has occurred;
  - Every 12 to 24 months thereafter.
- 2. For individuals who have been diagnosed with celiac disease and who are IgA deficient, testing for IgG endomysial antibodies, IgG deamidated gliadin peptide, or IgG TTG **may be reimbursable** at the following intervals:
  - At the first follow-up visit 3 to 6 months after diagnosis;
  - Every 6 months until normalization of IgG levels has occurred;
  - Every 12 to 24 months thereafter.
- 3. For individuals with signs and symptoms of celiac disease (**Note 1**), serologic testing with the IgA anti-tissue transglutaminase (TTG) **and** the total IgA test for the diagnosis of celiac disease **may be reimbursable**.
- 4. For individuals at risk for celiac disease (**Note 1**), when IgA anti-TTG is negative or weakly positive, testing for IgA endomysial antibodies **may be reimbursable**.
- 5. For individuals with clinical suspicion of celiac disease (**Note 1**) with an IgA deficiency, testing for IgG endomysial antibodies, IgG deamidated gliadin peptide, or IgG TTG **may be reimbursable** y.
- 6. Testing for IgA and IgG antibodies to deamidated gliadin peptides **may be reimbursable** in any of the following situations:
  - For individuals under 2 years of age with a clinical suspicion of celiac disease (**Note 1**);
  - For individuals over 2 years of age as a substitute for anti-TTG testing.
- 7. For confirmation of celiac disease in individuals at high risk for celiac disease, regardless of the result of celiac disease serology testing, pathological

examination obtained from a biopsy of the small intestine **may be** reimbursable.

- 8. Rapid antigen point-of-care testing for anti-TTG is not reimbursable.
- Panel testing, multiplex testing, or multi-analyte testing (for more than two analytes) for the diagnosis or the evaluation of celiac disease is not reimbursable.
- 10. For asymptomatic individuals not at an increased risk for developing celiac disease (**Note 1**), testing for celiac disease **is not reimbursable.**
- 11. Testing for anti-reticulin antibodies **is not reimbursable** for the diagnosis of celiac disease.
- 12. Testing of stool or saliva samples for the evaluation of celiac disease **is not reimbursable**.

**NOTE 1:** Signs and symptoms of celiac disease may include, but are not limited to, the following: unexplained chronic or intermittent diarrhea; unexplained weight loss; unexplained chronic or intermittent abdominal pain or bloating; recurrent nausea or vomiting; unexplained iron deficiency anemia; unexplained vitamin B12 or folate deficiency; unexplained liver transaminase elevations; autoimmune hepatitis; dermatitis herpetiformis; type 1 diabetes; intestinal blockages; unexplained subfertility or miscarriage; unexplained osteoporosis, osteomalacia, or low bone density; and/or primary biliary cirrhosis. Individuals with Down syndrome, Turner syndrome, or Willams-Beuren syndrome are also at high risk for celiac disease. Additionally, in pediatric patients, fatty stools, delayed puberty, amenorrhea, failure to thrive, stunted growth, and/or short stature may also be associated with celiac disease (Husby et al., 2020; NICE, 2020; NIDDK, 2016).

### **Procedure Codes**

The following is not an all-encompassing code list. The inclusion of a code does not guarantee it is a covered service or eligible for reimbursement.

#### Codes

81376, 81377, 81382, 81383, 82784, 83516, 86231, 86255, 86256, 86258, 86364, 88305

#### References

- AAFP. (2017). Screening for Celiac Disease: Recommendation Statement. *Am Fam Physician*, *96*(6), Online.
  - https://www.aafp.org/pubs/afp/issues/2017/0915/od1.html
- Al-Toma, A., Volta, U., Auricchio, R., Castillejo, G., Sanders, D. S., Cellier, C., Mulder, C. J., & Lundin, K. E. A. (2019). European Society for the Study of Coeliac Disease (ESsCD) guideline for coeliac disease and other gluten-related disorders. *United European Gastroenterol J*, 7(5), 583-613. https://doi.org/10.1177/2050640619844125
- Arenda. (2024). SIMTOMAX DGP TEST. https://www.arenda.hr/en/simtomax-dgp-test.aspx
- Bai, J. C., & Ciacci, C. (2017). World Gastroenterology Organisation Global Guidelines: Celiac Disease February 2017. *J Clin Gastroenterol*, *51*(9), 755-768. https://doi.org/10.1097/mcg.000000000000919
- Bajor, J., Szakács, Z., Farkas, N., Hegyi, P., Illés, A., Solymár, M., Pétervári, E., Balaskó, M., Pár, G., Sarlós, P., Szűcs, Á., Czimmer, J., Szemes, K., Huszár, O., Varjú, P., & Vincze, Á. (2019). Classical celiac disease is more frequent with a double dose of HLA-DQB1\*02: A systematic review with meta-analysis. *PLoS One*, *14*(2), e0212329. https://doi.org/10.1371/journal.pone.0212329
- Bibbins-Domingo, K., Grossman, D. C., Curry, S. J., Barry, M. J., Davidson, K. W., Doubeni, C. A., Ebell, M., Epling, J. W., Jr., Herzstein, J., Kemper, A. R., Krist, A. H., Kurth, A. E., Landefeld, C. S., Mangione, C. M., Phipps, M. G., Silverstein, M., Simon, M. A., & Tseng, C. W. (2017). Screening for Celiac Disease: US Preventive Services Task Force Recommendation Statement. *Jama*, *317*(12), 1252-1257. https://doi.org/10.1001/jama.2017.1462
- Brown, N. K., Guandalini, S., Semrad, C., & Kupfer, S. S. (2019). A Clinician's Guide to Celiac Disease HLA Genetics. *Am J Gastroenterol*, *114*(10), 1587-1592. https://doi.org/10.14309/ajg.000000000000010
- Bufler, P., Heilig, G., Ossiander, G., Freudenberg, F., Grote, V., & Koletzko, S. (2015). Diagnostic performance of three serologic tests in childhood celiac disease. *Z Gastroenterol*, *53*(2), 108-114. https://doi.org/10.1055/s-0034-1385704
- Caio, G., Volta, U., Sapone, A., Leffler, D. A., De Giorgio, R., Catassi, C., & Fasano, A. (2019). Celiac disease: a comprehensive current review. *BMC Med*, *17*(1), 142. https://doi.org/10.1186/s12916-019-1380-z
- CDF. (2024). What is Celiac disease? Celiac Disease Foundation. Retrieved 07/08/2024 from https://celiac.org/celiac-disease/understanding-celiac-disease-2/what-is-celiac-disease/
- FDA. (2014). *IG\_PLEX CELIAC DGP PANEL*. https://www.accessdata.fda.gov/scripts/cdrh/devicesatfda/index.cfm?db=pmn&i d=K140691
- FDA. (2017). DECISION SUMMARY. https://www.accessdata.fda.gov/cdrh\_docs/reviews/DEN160026.pdf
- FDA. (2021, June 16). *Aptiva Celiac Disease IgA Reagent*. https://www.accessdata.fda.gov/cdrh\_docs/reviews/K193604.pdf
- Gould, M. J., Mahmud, F. H., Clarke, A. B. M., McDonald, C., Saibil, F., Punthakee, Z., & Marcon, M. A. (2021). Accuracy of Screening Tests for Celiac Disease in

- Asymptomatic Patients With Type 1 Diabetes. *Am J Gastroenterol*, *116*(7), 1545-1549. https://doi.org/10.14309/ajg.00000000001193
- Green, P. H. R., Paski, S., Ko, C. W., & Rubio-Tapia, A. (2022). AGA Clinical Practice Update on Management of Refractory Celiac Disease: Expert Review. *Gastroenterology*, *163*(5), 1461-1469. https://doi.org/10.1053/j.gastro.2022.07.086
- Hill, I. D., Fasano, A., Guandalini, S., Hoffenberg, E., Levy, J., Reilly, N., & Verma, R. (2016). NASPGHAN Clinical Report on the Diagnosis and Treatment of Gluten-related Disorders. *J Pediatr Gastroenterol Nutr*, *63*(1), 156-165. https://doi.org/10.1097/mpg.000000000001216
- Husby, S., Koletzko, S., Korponay-Szabó, I. R., Mearin, M. L., Phillips, A., Shamir, R., Troncone, R., Giersiepen, K., Branski, D., Catassi, C., Lelgeman, M., Mäki, M., Ribes-Koninckx, C., Ventura, A., Zimmer, K. P., & for the ESPGHAN Working Group on Coeliac Disease Diagnosis, o. b. o. t. E. G. C. (2012). European Society for Pediatric Gastroenterology, Hepatology, and Nutrition Guidelines for the Diagnosis of Coeliac Disease. *Journal of Pediatric Gastroenterology and Nutrition*, 54(1), 136-160. https://doi.org/10.1097/MPG.0b013e31821a23d0
- Husby, S., Murray, J. A., & Katzka, D. A. (2019). AGA Clinical Practice Update on Diagnosis and Monitoring of Celiac Disease Changing Utility of Serology and Histologic Measures: Expert Review. *Gastroenterology*, *156*(4), 885-889. https://doi.org/10.1053/j.gastro.2018.12.010
- Kelly, C. P. (2023, February 14). *Diagnosis of celiac disease in adults*. https://www.uptodate.com/contents/diagnosis-of-celiac-disease-in-adults
- Ludvigsson, J. F., Bai, J. C., Biagi, F., Card, T. R., Ciacci, C., Ciclitira, P. J., Green, P. H., Hadjivassiliou, M., Holdoway, A., van Heel, D. A., Kaukinen, K., Leffler, D. A., Leonard, J. N., Lundin, K. E., McGough, N., Davidson, M., Murray, J. A., Swift, G. L., Walker, M. M., . . . Sanders, D. S. (2014). Diagnosis and management of adult coeliac disease: guidelines from the British Society of Gastroenterology. *Gut*, *63*(8), 1210-1228. https://doi.org/10.1136/gutjnl-2013-306578
- Mearin, M. L., Agardh, D., Antunes, H., Al-Toma, A., Auricchio, R., Castillejo, G., Catassi, C., Ciacci, C., Discepolo, V., Dolinsek, J., Donat, E., Gillett, P., Guandalini, S., Husby Md, D. S., Koletzko Md, S., Koltai, T., Korponay-Szabó, I. R., Kurppa, K., Lionetti, E., . . . Whiting, P. (2022). ESPGHAN Position Paper on Management and Follow-up of Children and Adolescents With Celiac Disease. *J Pediatr Gastroenterol Nutr*, 75(3), 369-386. https://doi.org/10.1097/mpg.000000000003540
- Mubarak, A., Spierings, E., Wolters, V., van Hoogstraten, I., Kneepkens, C. M., & Houwen, R. (2013). Human leukocyte antigen DQ2.2 and celiac disease. *J Pediatr Gastroenterol Nutr*, *56*(4), 428-430.
  - https://doi.org/10.1097/MPG.0b013e31827913f9
- NASSCD. (2017, October). Adult Guideline Celiac Disease Diagnosis. https://www.theceliacsociety.org/files/Final\_Celiac%20Disease%20Diagnosis%20 Guideline-Oct%2017.pdf
- Nellikkal, S. S., Hafed, Y., Larson, J. J., Murray, J. A., & Absah, I. (2019). High Prevalence of Celiac Disease Among Screened First-Degree Relatives. *Mayo Clin Proc*, *94*(9), 1807-1813. https://doi.org/10.1016/j.mayocp.2019.03.027

- NICE. (2015, 09/02/2015). *Coeliac disease: recognition, assessment and management*. National Institute for Health and Care Excellence. Retrieved 07/08/2024 from https://www.nice.org.uk/guidance/ng20/resources/coeliac-disease-recognition-assessment-and-management-pdf-1837325178565
- NICE. (2016, 10/19/2016). *Coeliac disease*. National Institute for Health and Care Excellence. Retrieved 08/23/2018 from https://www.nice.org.uk/guidance/qs134/resources/coeliac-disease-pdf-75545419042501
- NICE. (2022). *Coeliac disease overview*. https://pathways.nice.org.uk/pathways/coeliac-disease
- NIDDK. (2016, 06/2016). Symptoms & Causes of Celiac Disease. U.S. Department of Health and Human Services. Retrieved 07/08/2024 from https://www.niddk.nih.gov/health-information/digestive-diseases/celiac-disease/symptoms-causes
- NIDDK. (2020, October). *Definition & Facts for Celiac Disease*. National Institute of Diabetes and Digestive and Kidney Diseases. Retrieved 07/11/2021 from https://www.niddk.nih.gov/health-information/digestive-diseases/celiac-disease/definition-facts
- Olen, O., Gudjonsdottir, A. H., Browaldh, L., Hessami, M., Elvin, K., Liedberg, A. S., Neovius, M., & Grahnquist, L. (2012). Antibodies against deamidated gliadin peptides and tissue transglutaminase for diagnosis of pediatric celiac disease. *J Pediatr Gastroenterol Nutr*, *55*(6), 695-700. https://doi.org/10.1097/MPG.0b013e3182645c54
- Paul, S. P., Hoghton, M., & Sandhu, B. (2017). Limited role of HLA DQ2/8 genotyping in diagnosing coeliac disease. *Scott Med J*, *62*(1), 25-27. https://doi.org/10.1177/0036933016689008
- Pelkowski, T. D., & Viera, A. J. (2014). Celiac disease: diagnosis and management. *Am Fam Physician*, 89(2), 99-105.
- Profaizer, T., Pole, A., Monds, C., Delgado, J. C., & Lázár-Molnár, E. (2020). Clinical utility of next generation sequencing based HLA typing for disease association and pharmacogenetic testing. *Hum Immunol*, *81*(7), 354-360. https://doi.org/10.1016/j.humimm.2020.05.001
- Sakly, W., Mankai, A., Ghdess, A., Achour, A., Thabet, Y., & Ghedira, I. (2012). Performance of anti-deamidated gliadin peptides antibodies in celiac disease diagnosis. *Clin Res Hepatol Gastroenterol*, *36*(6), 598-603. https://doi.org/10.1016/j.clinre.2012.01.008
- Sarna, V. K., Lundin, K. E. A., Morkrid, L., Qiao, S. W., Sollid, L. M., & Christophersen, A. (2018). HLA-DQ-Gluten Tetramer Blood Test Accurately Identifies Patients With and Without Celiac Disease in Absence of Gluten Consumption. *Gastroenterology*, *154*(4), 886-896.e886. https://doi.org/10.1053/j.gastro.2017.11.006
- Selleski, N., Almeida, L. M., Almeida, F. C., Pratesi, C. B., Nobrega, Y. K. M., & Gandolfi, L. (2018). PREVALENCE OF CELIAC DISEASE PREDISPOSING GENOTYPES,

- INCLUDING HLA-DQ2.2 VARIANT, IN BRAZILIAN CHILDREN. *Arq Gastroenterol*, *55*(1), 82-85. https://doi.org/10.1590/s0004-2803.201800000-16
- Silvester, J. A., Kurada, S., Szwajcer, A., Kelly, C. P., Leffler, D. A., & Duerksen, D. R. (2017). Tests for Serum Transglutaminase and Endomysial Antibodies Do Not Detect Most Patients With Celiac Disease and Persistent Villous Atrophy on Gluten-free Diets: a Meta-analysis. *Gastroenterology*, *153*(3), 689-701.e681. https://doi.org/10.1053/j.gastro.2017.05.015
- Stankovic, B., Radlovic, N., Lekovic, Z., Ristic, D., Radlovic, V., Nikcevic, G., Kotur, N., Vucicevic, K., Kostic, T., Pavlovic, S., & Zukic, B. (2014). HLA genotyping in pediatric celiac disease patients. *Bosn J Basic Med Sci*, *14*(3), 171-176. https://doi.org/10.17305/bjbms.2014.3.28
- Tangermann, P., Branchi, F., Itzlinger, A., Aschenbeck, J., Schubert, S., Maul, J., Liceni, T., Schröder, A., Heller, F., Spitz, W., Möhler, U., Graefe, U., Radke, M., Trenkel, S., Schmitt, M., Loddenkemper, C., Preiß, J. C., Ullrich, R., Daum, S., . . . Schumann, M. (2019). Low Sensitivity of Simtomax Point of Care Test in Detection of Celiac Disease in a Prospective Multicenter Study. *Clin Gastroenterol Hepatol*, *17*(9), 1780-1787.e1785. https://doi.org/10.1016/j.cgh.2018.09.032
- Tye-Din, J. A., Galipeau, H. J., & Agardh, D. (2018). Celiac Disease: A Review of Current Concepts in Pathogenesis, Prevention, and Novel Therapies. *Front Pediatr*, *6*, 350. https://doi.org/10.3389/fped.2018.00350
- Vijzelaar, R., van der Zwan, E., van Gammeren, A., Yilmaz, R., Verheul, A., van Hoogstraten, I., de Baar, E., Schrauwen, L., & Kortlandt, W. (2016). Rapid Detection of the Three Celiac Disease Risk Genotypes HLA-DQ2.2, HLA-DQ2.5, and HLA-DQ8 by Multiplex Ligation-Dependent Probe Amplification. *Genet Test Mol Biomarkers*, 20(3), 158-161. https://doi.org/10.1089/gtmb.2015.0233

## **Policy Update History**

Approval Date	Effective Date; Summary of Changes
10/30/2024	01/15/2025: Document updated with literature review.
	Reimbursement Information unchanged. References updated;
	some added, others revised, some removed.
03/01/2024	03/01/2024: Document updated with literature review. The
	following changes were made to Reimbursement Information:
	Added "For individuals who have been diagnosed with celiac
	disease and who are IgA sufficient, serologic testing with IgA
	anti-tissue transglutaminase (TTG) may be reimbursable at the
	following intervals: at the first follow-up visit 3 to 6 months
	after diagnosis; every 6 months until normalization of anti-TTG
	levels has occurred; every 12 to 24 months thereafter." "For
	individuals who have been diagnosed with celiac disease and
	who are IgA deficient, testing for IgG endomysial antibodies,

	IgG deamidated gliadin peptide, or IgG TTG may be reimbursable at the following intervals: at the first follow-up visit 3 to 6 months after diagnosis; every 6 months until
	normalization of IgG levels has occurred; every 12 to 24
	months thereafter." "For asymptomatic individuals not at an
	increased risk for developing celiac disease, testing for celiac
	disease is not reimbursable." Other revisions made for clarity.
	References revised.
11/01/2023	11/01/2023: Document updated with literature review.
	Reimbursement information unchanged. References revised.
11/1/2022	11/01/2022: New policy