

Revision Log

Clinical Policy: Teleretinal Screening for Diabetic Retinopathy Reference Number: CP.VP.88 Coding Implications

Reference Number: CP.VP.88 Last Review Date: 03/2022

See <u>Important Reminder</u> at the end of this policy for important regulatory and legal information.

Description

This policy describes the medical necessity guidelines for teleretinal screening as an alternative to retinopathy evaluation by an ophthalmologist or optometrist.

See clinical policy CP.VP.29 Fundus Photography and clinical practice guidelines CP.VP.22 Diabetic Eye Examination.

Policy/Criteria

- It is the policy of health plans affiliated with Centene Corporation[®] (Centene) that teleretinal screening for diabetic retinopathy is medically necessary when all of the following are met:
 A. Diagnosis of diabetes
- **II.** It is the policy of health plans affiliated with Centene that teleretinal screening for diabetic retinopathy is **not medically necessary** for all of the following indications:
 - A. Prior diagnosis of retinopathy
 - B. Retinal evaluation within the past 11 months

Background

The prevalence of diabetes is increasing with increasing industrialization and globalization. Duration of diabetes is a major risk factor associated with the development of diabetic retinopathy. Consequently, the prevalence of diabetic retinopathy and vision-threatening diabetic retinopathy is also expected to increase. Diabetes is currently the leading cause of new cases of blindness among adults aged 18–64 years; however, only an estimated 60% of people with diabetes have recommended yearly screenings for diabetic retinopathy. The purpose of an effective screening program for diabetic retinopathy is to determine who needs to be referred for close follow-up and possible treatment and who may simply be screened annually. Some studies have shown that screening programs using digital retinal images taken with or without dilation may enable early detection of diabetic retinopathy along with an appropriate referral.

In the presence of barriers to obtaining a diabetic eye examination with an ophthalmologist or optometrist, teleretinal alternatives have the ability to close care gaps among diabetic patients without a prior retinopathy diagnosis, allowing for earlier detection and intervention. Furthermore, studies suggest that telehealth eye care programs that combine retinal imaging, education, and some care management can improve patient adherence to annual, comprehensive eye examinations and follow-up treatments. Intensive diabetes management with the goal of achieving near normoglycemia has been shown in large prospective randomized studies to prevent and/or delay the onset and progression of diabetic retinopathy.

The National Committee for Quality Assurance (NCQA) Healthcare Effectiveness Data and Information Set (HEDIS) measure for retinal eye exam (DRE) recognizes teleretinal imaging



with interpretation by ophthalmologists or optometrists or artificial intelligence (AI) detection software. Teleretinal imaging and eye examination results show significant correlation and moderate agreement. The diagnostic accuracy of telemedicine using digital imaging in diabetic retinopathy is overall high, allowing wide use for diabetic retinopathy screening. Pooled resulting sensitivity of teleretinal imaging and interpretation exceeds 80% in detecting the absence of diabetic retinopathy, while specificity exceeds 90%, except in the detection of mild non-proliferative diabetic retinopathy which reaches 89%. Cataract and smaller pupil size were significantly associated with ungradable retinal images. A single nonmydriatic monochromatic wide-field digital photograph of the disk and macula was found to be more sensitive for diabetic retinopathy screening than mydriatic ophthalmoscopy by an eye care provider.

When applied in a screening population comprising patients with diabetes with untreated diabetic retinopathy in any eye and patients with diabetes without retinopathy, automated lesion detection correctly identified 90.1% of patients with retinopathy and 81.3% of patients without retinopathy. A per-eye analysis for methodological purposes demonstrated that the automated lesion detection could be adapted to simulate various visual evaluation strategies. When adapted at high sensitivity, the automated system demonstrated sensitivity at 93.1% and specificity at 71.6%. When adapted at high specificity the automated system demonstrated sensitivity 76.4% and specificity at 96.6%, closely matching routine visual grading at sensitivity 76.4% and specificity 98.3%. Automated detection of untreated diabetic retinopathy in fundus photographs from a screening population of patients with diabetes can be made with adjustable priority settings, emphasizing high-sensitivity identification of diabetic retinopathy or high-specificity identification of absence of retinopathy, covering opposing extremes of visual evaluation strategies demonstrated by human observers.

Coding Implications

This clinical policy references Current Procedural Terminology (CPT[®]). CPT[®] is a registered trademark of the American Medical Association. All CPT codes and descriptions are copyrighted 2018, American Medical Association. All rights reserved. CPT codes and CPT descriptions are from the current manuals and those included herein are not intended to be all-inclusive and are included for informational purposes only. Codes referenced in this clinical policy are for informational purposes only. Inclusion or exclusion of any codes does not guarantee coverage. Providers should reference the most up-to-date sources of professional coding guidance prior to the submission of claims for reimbursement of covered services.

CPT [®] Codes	Description
92227	Remote imaging for detection of retinal disease (e.g., retinopathy in a patient with diabetes) with analysis and report under physician supervision, unilateral or bilateral
92228	Remote imaging for monitoring and management of active retinal disease (e.g., diabetic retinopathy) with physician review, interpretation and report, unilateral or bilateral
92229	Imaging of retina for detection or monitoring of disease; point-of-care automated analysis and report, unilateral or bilateral



HCPCS Codes	Description
2024F	7 standard field stereoscopic retinal photos with interpretation by an ophthalmologist or optometrist documented and reviewed; with evidence of retinopathy (DM)
2025F	7 standard field stereoscopic retinal photos with interpretation by an ophthalmologist or optometrist documented and reviewed; without evidence of retinopathy (DM)
2026F	Eye imaging validated to match diagnosis from 7 standard field stereoscopic retinal photos results documented and reviewed; with evidence of retinopathy (DM)
2033F	Eye imaging validated to match diagnosis from 7 standard field stereoscopic retinal photos results documented and reviewed; without evidence of retinopathy (DM)

ICD-10-CM Diagnosis Codes that Support Coverage Criteria

+ Indicates a code requiring an additional character

ICD-10-CM	Description
Code	
E08.00 - E08.9	Diabetes mellitus due to underlying condition
E09.00 – E09.9	Drug or chemical induced diabetes mellitus
E10.00 – E10.9	Type 1 diabetes mellitus
E11.00 – E11.9	Type 2 diabetes mellitus
E13.00 – E13.9	Other specified diabetes mellitus

Reviews, Revisions, and Approvals	Date	Approval Date
Original approval date	07/2020	10/2020
Annual Review	12/2020	12/2020
Annual Review	12/2021	01/2022
Removed CPT Code 92250 from list of applicable CPT Codes for teleretinal screening; Added new CPT code 92229	03/2022	04/2022

References

- American Academy of Ophthalmology Retina/Vitreous Panel. Preferred Practice Pattern® Guidelines. Diabetic Retinopathy. San Francisco, CA. American Academy of Ophthalmology; 2019. <u>https://www.aao.org/preferred-practice-pattern/diabetic-retinopathy-ppp</u>
- National Committee for Quality Assurance (NCQA) HEDIS Measures and Technical Resources / Comprehensive Diabetes Care. https://www.ncqa.org/hedis/measures/comprehensive-diabetes-care/
- 3. Centers for Disease Control and Prevention (CDC). 2020. "National Diabetes Statistics Report: Estimates of Diabetes and Its Burden in the United States, 2020." Atlanta, GA: U.S. Department of Health and Human Services. https://www.cdc.gov/diabetes/pdfs/data/statistics/national-diabetes-statistics-report.Pdf



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Important Reminder

This clinical policy has been developed by appropriately experienced and licensed health care professionals based on a review and consideration of currently available generally accepted standards of medical practice; peer-reviewed medical literature; government agency/program approval status; evidence-based guidelines and positions of leading national health professional organizations; views of physicians practicing in relevant clinical areas affected by this clinical policy; and other available clinical information. The Health Plan makes no representations and accepts no liability with respect to the content of any external information used or relied upon in developing this clinical policy. This clinical policy is consistent with standards of medical practice current at the time that this clinical policy was approved. "Health Plan" means a health plan that has adopted this clinical policy and that is operated or administered, in whole or in part, by Centene Management Company, LLC, or any of such health plan's affiliates, as applicable.

The purpose of this clinical policy is to provide a guide to medical necessity, which is a component of the guidelines used to assist in making coverage decisions and administering benefits. It does not constitute a contract or guarantee regarding payment or results. Coverage decisions and the administration of benefits are subject to all terms, conditions, exclusions and limitations of the coverage documents (e.g., evidence of coverage, certificate of coverage, policy, contract of insurance, etc.), as well as to state and federal requirements and applicable Health Plan-level administrative policies and procedures.

This clinical policy is effective as of the date determined by the Health Plan. The date of posting may not be the effective date of this clinical policy. This clinical policy may be subject to



applicable legal and regulatory requirements relating to provider notification. If there is a discrepancy between the effective date of this clinical policy and any applicable legal or regulatory requirement, the requirements of law and regulation shall govern. The Health Plan retains the right to change, amend or withdraw this clinical policy, and additional clinical policies may be developed and adopted as needed, at any time.

This clinical policy does not constitute medical advice, medical treatment or medical care. It is not intended to dictate to providers how to practice medicine. Providers are expected to exercise professional medical judgment in providing the most appropriate care, and are solely responsible for the medical advice and treatment of members. This clinical policy is not intended to recommend treatment for members. Members should consult with their treating physician in connection with diagnosis and treatment decisions.

Providers referred to in this clinical policy are independent contractors who exercise independent judgment and over whom the Health Plan has no control or right of control. Providers are not agents or employees of the Health Plan.

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Note: For Medicaid members, when state Medicaid coverage provisions conflict with the coverage provisions in this clinical policy, state Medicaid coverage provisions take precedence. Please refer to the state Medicaid manual for any coverage provisions pertaining to this clinical policy.

Note: For Medicare members, to ensure consistency with the Medicare National Coverage Determinations (NCD) and Local Coverage Determinations (LCD), all applicable NCDs, LCDs, and Medicare Coverage Articles should be reviewed <u>prior to</u> applying the criteria set forth in this clinical policy. Refer to the CMS website at <u>http://www.cms.gov</u> for additional information.

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