Local Coverage Determination (LCD): Scanning Computerized Ophthalmic Diagnostic Imaging (SCODI) (L33751)

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Contractor Information

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LCD Information

Document Information

**LCD ID**
L33751

**LCD Title**
Scanning Computerized Ophthalmic Diagnostic Imaging (SCODI)

**Proposed LCD in Comment Period**
N/A

**Source Proposed LCD**
DL33751

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CMS National Coverage Policy

This LCD supplements but does not replace, modify or supersede existing Medicare applicable National Coverage Determinations (NCDs) or payment policy rules and regulations for Scanning Computerized Ophthalmic Diagnostic Imaging (SCODI). Federal statute and subsequent Medicare regulations regarding provision and payment for medical services are lengthy. They are not repeated in this LCD. Neither Medicare payment policy rules nor this LCD replace, modify or supersede applicable state statutes regarding medical practice or other health practice professions acts, definitions and/or scopes of practice. All providers who report services for Medicare payment must fully understand and follow all existing laws, regulations and rules for Medicare payment for Scanning Computerized Ophthalmic Diagnostic Imaging (SCODI) and must properly submit only valid claims for them. Please review and understand them and apply the medical necessity provisions in the policy within the context of the manual rules. Relevant CMS manual instructions and policies may be found in the following Internet-Only Manuals (IOMs) published on the CMS Web site:

Internet Only Manual (IOM) Citations

- CMS IOM Publication 100-03, Medicare National Coverage Determinations (NCD) Manual,
  - Chapter 1, Part 1, Section 80.2 Photodynamic Therapy (OPT), Section 80.2.1 Ocular Photodynamic Therapy (OPT), Section 80.3 Photosensitive Drugs, Section 80.3.1 Verteporfin, Section 80.6 Intraocular Photography, Section 80.9 Computer Enhanced Perimetry
  - Chapter 1, Part 2, Section 140.5 Laser Procedures
  - Chapter 1, Part 4, Section 220.1 Computed Tomography (CT)
- CMS IOM Publication 100-04, Medicare Claims Processing Manual,
  - Chapter 23, Section 10 Reporting ICD Diagnosis and Procedure codes, Section 20.9 National Correct Coding Initiative (CCI)
- CMS IOM Publication 100-08, Medicare Program Integrity Manual,
National Correct Coding Initiative (NCCI) Citations:

- NCCI Policy Manual for Medicare Services
  - Chapter 11, Section G. Ophthalmology

Social Security Act (Title XVIII) Standard References:

- Title XVIII of the Social Security Act, Section 1862(a)(1)(A) states that no Medicare payment shall be made for items or services which are not reasonable and necessary for the diagnosis or treatment of illness or injury.
- Title XVIII of the Social Security Act, Section 1862(a)(7). This section excludes routine physical examinations.
- Title XVIII of the Social Security Act, Section 1833(e) states that no payment shall be made to any provider for any claim that lacks the necessary information to process the claim.

Coverage Guidance

Coverage Indications, Limitations, and/or Medical Necessity

Notice: It is not appropriate to bill Medicare for services that are not covered (as described by this entire LCD) as if they are covered. When billing for non-covered services, use the appropriate modifier.

Compliance with the provisions in this LCD may be monitored and addressed through post payment data analysis and subsequent medical review audits.

History/Background and/or General Information

Glaucoma

Glaucoma is a leading cause of blindness, and a disease for which treatment methods clearly are available and in common use. Scanning computerized ophthalmic diagnostic imaging (SCODI) allows for early detection of glaucomatous damage to the nerve fiber layer or optic nerve of the eye. It is the goal of these diagnostic imaging tests to discriminate among patients with normal IOP who have glaucoma, patients with elevated IOP who have glaucoma, and patients with elevated IOP who do not have glaucoma. These tests can also provide precise methods of observation of the optic nerve head and can more accurately reveal subtle glaucomatous changes over the course of follow-up exams than visual field and/or disc photos. This can allow earlier and more efficient treatment of the disease process. The severity of glaucoma damage can be estimated as mild, moderate, severe, or indeterminate.

Retinal Disorders

Retinal disorders are the most common causes of severe and permanent vision loss. SCODI is a valuable tool for the evaluation and treatment of patients with retinal disease, especially macular abnormalities. SCODI is able to detail the microscopic anatomy of the retina and the vitreo-retinal interface. SCODI is useful to measure the effectiveness of therapy, in determining the need for ongoing therapy or cessation of therapy.

The retina is a complex tissue in the back of the eye that contains specialized photoreceptor cells called rods and cones. The photoreceptors connect to a network of nerve cells for the local processing of visual information. This information is sent to the brain for decoding into a visual image. The adjacent retinal pigment epithelium (RPE)
supports many of the retina’s metabolic functions.

The retina is susceptible to a variety of diseases, including age-related macular degeneration (AMD), diabetic retinopathy (DR), retinitis pigmentosa (RP) and other inherited retinal degenerations, uveitis, retinal detachment, and eye cancers. Each of these can lead to visual loss or complete blindness.

The leading cause of visual loss among elderly persons is AMD, which has an increasingly important social and economic impact in the United States. As the size of the elderly population increases in this country, AMD will become a more prevalent cause of blindness than both DR and glaucoma combined.

DR is also a major cause of blindness. In the proliferative stage of the disease, newly formed, abnormal blood vessels can break through the retinal surface and hemorrhage into the normally transparent, gelatin-like vitreous in the middle of the eye. Scar tissue may subsequently form and pull the retina away from the back of the eye, causing a retinal detachment to occur.

Rare inherited retinal degenerations, typified by RP, result in the destruction of photoreceptor cells and the RPE.

Clinical evidence has shown that long-term use of chloroquine (CQ) and/or hydroxychloroquine (HCQ) can lead to irreversible retinal toxicity. SCODI may be indicated to provide monitoring of patients for the development of retinopathy during long-term therapy.

**SCODI Techniques**

There are several forms of SCODI tests that currently exist. SCODI testing includes scanning laser polarimetry, optical coherence tomography (OCT), and confocal scanning laser ophthalmoscopy (CSLO). These testing devices use videographic digitized images to make quantitative topographic measurements of the optic nerve head and surrounding retina. Although these techniques are different, their objective is the same. These methods are described below:

- **Scanning Laser Polarimetry**

  The retinal nerve fiber layer (RNFL) is birefringent, causing a change in the state of polarization of a laser beam as it passes. A 780-nm diode laser is used to illuminate the optic nerve. The polarization state of the light emerging from the eye is then evaluated and correlated with RNFL thickness. Unlike confocal scanning laser ophthalmoscopy (CSLO), scanning laser polarimetry (SLP) can directly measure the thickness of the RNFL. GDx® is a common example of a scanning laser polarimeter. GDx® contains a normative database and statistical software package to allow comparison to age-matched normal subjects of the same ethnic origin. The advantages of this system are that images can be obtained without pupil dilation, and evaluation can be done in about 10 minutes. Current instruments have added enhanced and variable corneal compensation technology to account for corneal polarization.

- **Optical Coherence Tomography**

  Optical coherence tomography (OCT) uses near-infrared light to provide direct cross-sectional measurement of the retinal nerve fiber layer. The principals employed are similar to those used in B-mode ultrasound except light, not sound, is used to produce the 3-dimensional images. The light source can be directed into the eye through a conventional slit-lamp biomicroscope and focused onto the retina through a typical 78-diopter lens. This system requires dilation of the patient’s pupil.
• **Confocal Scanning Laser Ophthalmoscopy**

Confocal scanning laser ophthalmoscopy (CSLO) is a laser-based image acquisition technique, which is intended to improve the quality of the examination compared to standard ophthalmologic examination. A laser is scanned across the retina along with a detector system. Only a single spot on the retina is illuminated at any time, resulting in a high-contrast image of great reproducibility that can be used to estimate the thickness of the RNFL. In addition, this technique does not require maximal mydriasis, which may be a problem in patients with glaucoma. The Heidelberg Retinal Tomograph is probably the most common example of this technology.

**Covered Indications**

**Anterior segment SCODI** will be considered medically reasonable and necessary for evaluation of specified forms of glaucoma and certain disorders of the cornea, iris and ciliary body.

**Posterior segment SCODI** will be considered medically reasonable and necessary under the following circumstances:

1. For diagnosis and management of a patient who has mild, moderate, severe or indeterminate stage glaucoma or who is suspected of having glaucoma.

2. Monitoring patients being treated with chloroquine (CQ) and/or hydroxychloroquine (HCQ) for the development of retinopathy.

3. The evaluation and treatment of patients with conditions affecting the optic nerve (e.g. optic neuropathy) or retinal disease (e.g., macular degeneration, diabetic retinopathy) and in the evaluation and treatment of certain macular abnormalities (e.g., macular edema, atrophy associated with degenerative retinal diseases).

**Limitations**

The following are considered not reasonable and necessary and therefore will be denied:

1. SCODI is usually not medically reasonable and necessary when performed to provide additional confirmatory information regarding a diagnosis which has already been determined. Documentation should support that the SCODI test result was used for establishing a diagnosis, establishing a baseline prior to treatment, or for monitoring purposes.

2. Fundus photography and posterior segment SCODI performed on the same eye on the same day are generally mutually exclusive of one another (*National Correct Coding Initiative (NCCI) Policy Manual for Medicare Services*). The provider is not precluded from performing both on the same eye on the same day when each service is necessary to evaluate and treat the patient. The medical record should clearly document the medical necessity of each service. Frequent reporting of these services together may trigger focused medical review.

3. Screening (patient without signs or symptoms) for any condition is not medically reasonable and necessary.

For frequency limitations please refer to the "Utilization Guidelines" section of the LCD below.

**Notice:** This LCD imposes frequency limitations as well as diagnosis limitations that support diagnosis to procedure code automated denials. However, services performed for any given diagnosis must meet all of the indications and limitations stated in this LCD, the general requirements for medical necessity as stated in CMS payment policy.
manuals, any and all existing CMS national coverage determinations, and all Medicare payment rules.

As published in CMS IOM Publication 100-08, Chapter 13, Section 13.5.4, in order to be covered under Medicare, a service shall be reasonable and necessary. When appropriate, contractors shall describe the circumstances under which the proposed LCD for the service is considered reasonable and necessary under Section 1862 (a)(1)(A). Contractors shall consider a service to be reasonable and necessary if the contractor determines that the service is:

- Safe and effective.
- Not experimental or investigational (exception: routine costs of qualifying clinical trial services with dates of service on or after September 19, 2000, that meet the requirements of the Clinical Trials NCD are considered reasonable and necessary).
- Appropriate, including the duration and frequency that is considered appropriate for the service, in terms of whether it is:
  - Furnished in accordance with accepted standards of medical practice for the diagnosis or treatment of the patient's condition or to improve the function of a malformed body member.
  - Furnished in a setting appropriate to the patient's medical needs and condition.
  - Ordered and furnished by qualified personnel.
  - One that meets, but does not exceed, the patient's medical needs.
  - At least as beneficial as an existing and available medically appropriate alternative.

The redetermination process may be utilized for consideration of services performed outside of the reasonable and necessary requirements in this LCD.

**Summary of Evidence**

Scanning computerized ophthalmic diagnostic imaging (SCODI) allows for the early detection of glaucomatous damage to the nerve fiber layer or optic nerve and has demonstrated clinical utility in facilitating earlier diagnosis and treatment as well as monitoring for progression and response to treatment. Evidence-based guidelines [2015 Academy of Ophthalmology (AAO) Preferred Practice Pattern (PPP) on Primary Open-Angle Glaucoma and 2010 American Optometric Association (AOA) Optometric Clinical Practice Guideline on Care of the Patient with Open Angle Glaucoma] identify SCODI as one technique that may be used to examine the optic nerve head (ONH) and/or retinal nerve fiber layer (RNFL). SCODI is often used to provide quantitative information to supplement the clinical exam of the optic nerve. SCODI is widely used in the posterior segment, whereas in the anterior segment, the use is still limited.

The evidence-based guideline from the AAO (2015 AAO PPP on Primary Angle Closure) indicates that anterior segment imaging should be considered when angle anatomy is difficult to assess on gonioscopy. There is good evidence demonstrating general agreement between findings on gonioscopy and anterior segment imaging, including ultrasound biomicroscopy and anterior segment optical coherence tomography (AS-OCT). However, AS-OCT is limited to evaluating the iridocorneal angle. AS-OCT is one technology that may prove useful in evaluating secondary causes of angle closure and elucidating plateau iris.
SCODI is also a valuable tool for the evaluation of patients with retinal disease, especially those with macular abnormalities. SCODI is often used in conjunction with clinical examination of the eye. It is at times used as a baseline and also used in monitoring for progression or response to treatment. The clinical utility of OCT imaging in retinal conditions has been demonstrated as providing an objective, accurate assessment of the amount and location of retinal thickening. Evidence-based guidelines from the AAO [PPP Diabetic Retinopathy (2016) and the PPP Idiopathic Macular Hole (2014, updated 2017)] support that in clinical practice, decisions are often based on OCT findings.

Finally, Marmor et al. (AAO Statement 2016) published recommendations on screening patients who are being treated with Chloroquine and Hydroxychloroquine. A baseline test is performed and then ongoing monitoring at regular intervals is recommended. Marmor et al. recommends beginning annual screening after 5 years for patients on acceptable doses of chloroquine or hydroxychloroquine and without any major risk factors.

Multiple sources of literature were submitted for consideration of posterior SCODI for advanced (severe) stage glaucoma and anterior SCODI to examine the structures of the anterior segment of the eye.

In an observational case study, Leite et al. (2010) looked at 99 patients with glaucomatous eyes and 47 control patients. The severity of disease was graded using the visual field index (VFI) from standard automated perimetry. The authors looked to determine if disease severity had any impact on the diagnostic accuracy of OCT. The average VFI for the glaucomatous eyes was 85.5% and for the control eyes was 99.4% indicating very minimal visual field loss. The results show that for those with mild disease (VFI near 100%) the sensitivity of OCT was 47% and the specificity was 95%. For those patients with a VFI of 70%, the sensitivity increased to 84% and the specificity was 95%.

Bowd et al. (2017) published a study that looked to estimate the measurement floors for spectral-domain optical coherence tomography (SD-OCT) measurements [minimum rim width (MRW), ganglion cell-inner plexiform layer thickness (GC-IPLT), and circumpapillary retinal nerve fiber layer thickness (cpRNFLT)] and compared global change over time in advanced glaucoma eyes. The study included a variability group of 41 eyes of 27 glaucoma patients with moderate to advanced glaucoma to estimate the measurement floors and 87 eyes of 59 patients with advanced to severe glaucoma in a longitudinal group. Average structural loss of MRW, macular GC-IPLT and cpRNFL thickness in the variability group eyes (over 5 weeks of follow-up) and the longitudinal group eyes (over 2 years of follow-up) was presented. The results indicated the mean percentage of image area that did not reach the floor in the baseline images of eyes in the longitudinal group (i.e., the image percentage that changed after 2 years of follow-up) was 19% for MRW, 36% for GC-IPLT and 14% for cpRNFL thickness, indicating that GC-IPLT likely is the most robust measurement for assessing localized change in eyes with advanced glaucoma eyes. Authors concluded that a significant percentage of SD-OCT-measured retinal tissue is spared from the measurement floor in advanced glaucoma eyes. In addition, progressive thinning of the spared tissue is observable well into late-stage disease, particularly when GC-IPLT is the structural parameter measured. These results indicate that optical imaging, particularly SD-OCT imaging, has a place in detecting structural change in eyes with advanced glaucoma.

Belghith et al. (2016) did a study is to compare SD-OCT standard structural measures MRW, ganglion cell-inner plexiform layer (GC-IPL), and cpRNFL and a new three-dimensional (3D) volume optic nerve head (ONH) change detection method for detecting change over time in severely advanced glaucoma (open-angle glaucoma [OAG]) patients. The study included three groups of participants. The first group was composed of 35 eyes of 35 advanced-glaucoma patients followed for an average of 3.5 years. The stable glaucoma group consisted of 50 eyes from 27 early-, moderate-, and advanced-glaucoma patients with five serial OCT exams imaged every week for 5 weeks. A third group of 46 eyes from 30 healthy subjects followed for an average of 2.8 years was used to estimate the aging effects. Results suggest that even in very advanced glaucoma, structural loss can be detected in some eyes using standard global structural measures. Specifically, macular GC-IPL had the highest proportion of eyes with detectable change (31%), followed by MRW (11%) and cpRNFL (4%). In addition, the 3D whole-volume Bayesian-kernel
detection scheme (BKDS) change method, which does not require extensive retinal layer segmentation, detected change in 37% of eyes. The authors concluded the results suggest that even in very advanced disease, structural change can be detected, and that monitoring macular GC-IPL and 3D whole-volume patients BKDS change shows promise for identifying progression in advanced glaucoma. However, a larger sample of advanced-glaucoma patients with longer follow-up is needed to validate these findings.

In a retrospective case note review, Hau et al. (2015) compared AS-OCT with ultrasound B-scan (USB) in evaluating iris and iridociliary body lesions. Patients with other anterior or posterior segment lesions or tumors were excluded from this study. The study included 126 patients (126 eyes), the mean age of the patient group was 57.8, who were imaged with both AS-OCT and USB presenting to the same ocular oncology center over a 2 year period of time. The three most common diagnoses were iris naevi, iris pigment epithelial cysts, and iris melanoma. The aim of the study was to evaluate which imaging modality (AS-OCT vs. USB) provided better visualization and characterization of a large cohort of iris and iridociliary body lesions. High-frequency ultrasound biomicroscopy (UBM) was not included in this study, but was referenced as having some distinct advantages over USB and AS-OCT as well as limitations on use. The results revealed that USB was better than AS-OCT in visualizing all tumor margins, posterior tumor margin, and producing less posterior shadowing. USB was slightly better for resolving the overall tumor and posterior tumor surface, but AS-OCT was better for resolving the anterior and lateral tumor surface. In total, AS-OCT was able to detect more lesions than USB, especially in imaging iris lesions, but it was unable to detect any of the ciliary body lesions. The authors concluded that AS-OCT is superior to USB for imaging small lesions pertaining to the anterior iris but USB is better for imaging larger iris lesions with posterior or ciliary body extension.

Janssens et al. (2016) conducted a systematic review to determine how AS-OC and UBM are in determining tumor margins and tumor depth of conjunctival and corneal tumors and if either of these techniques can provide additional information regarding the diagnosis. Fourteen sources were selected to analyze corneal and conjunctival tumor thickness and internal characteristics and extension in depth and size and shape measured by either of these two noninvasive techniques, AS-OCT or UBM, or a combination of both. The study designs included retrospective analysis, retrospective interventional case series, retrospective noninterventional case series, prospective studies, and unknown study designs. The number of patients in articles using UBM (alone) in conjunctival and corneal tumors totaled 44, the number of patients in articles using AS-OCT (alone) in conjunctival and corneal tumors totaled 211 (212 eyes), and the number of patients in articles using both UBM and AS-OCT in conjunctival and corneal tumors totaled 235 (238 tumors). The results show that both AS-OCT and UBM imaging techniques provide useful information about the internal features, extension, size, and shape of tumors. There is not enough evidence on the advantages and disadvantages of AS-OCT and UBM in certain tumor types. The authors concluded that more comparative studies are needed to investigate which imaging technique is most suitable for a certain tumor type.

Analysis of Evidence
(Rationale for Determination)

The clinical utility of SCODI has been established and validated in evidence-based guidelines and literature for early detection of glaucomatous damage to the retinal nerve fiber layer or optic disc, differentiation and diagnosis of other disorders of the optic nerve as well as monitoring for progressive optic neuropathy, monitoring retinal conditions, and drug-related ocular toxicity.

A number of studies have been published to evaluate the usefulness of posterior OCT for individuals with advanced glaucomatous damage as well as the potential applications of anterior segment OCT (AS-OCT and SD-OCT with anterior segment imaging capabilities) to image and provide measurements of anterior segment structures in a number of clinical situations. Overall, these studies have small sample sizes, relatively limited follow-up, and no documentation of improved health outcomes in the Medicare population. Some of the studies have populations that
would not be generalizable to the Medicare population.

General Information

Associated Information

Documentation Requirements

1. All documentation must be maintained in the patient's medical record and made available to the contractor upon request.
2. Every page of the record must be legible and include appropriate patient identification information (e.g., complete name, dates of service[s]). The documentation must include the legible signature of the physician or non-physician practitioner responsible for and providing the care to the patient.
3. The submitted medical record must support the use of the selected ICD-10-CM code(s). The submitted CPT/HCPCS code must describe the service performed.
4. The medical record documentation must support the medical necessity of the services as directed in this LCD.
5. Medical record must include the test results, comparison with prior tests when applicable, computer analysis of the data, and appropriate data storage for future comparison in follow-up exams.
6. If applicable, medical record documentation must clearly indicate the rationale which supports the medical necessity for performing the fundus photography and posterior segment SCODI on the same day on the same eye. Documentation should also reflect how the test results were used in the patient’s plan of care.
7. If bilateral studies are performed, the documentation maintained by the provider must demonstrate medical need for the performance of the test for each eye.
8. When reporting other long term (current) drug therapy, the medical record must reflect the medication administered as well as the underlying condition for which it was given.

Utilization Guidelines

In accordance with CMS Ruling 95-1 (V), utilization of these services should be consistent with locally acceptable standards of practice.

Scanning computerized ophthalmic diagnostic imaging, anterior segment, with interpretation and report, unilateral or bilateral

- No more than (2) exams per year will be considered medically reasonable and necessary for covered indications.

Scanning computerized ophthalmic diagnostic imaging, posterior segment, with interpretation and report, unilateral or bilateral; optic nerve

- No more than two (2) exams per year will be considered medically reasonable and necessary for the patient who has or is suspected of having glaucoma.

Scanning computerized ophthalmic diagnostic imaging, posterior segment, with interpretation and report, unilateral or bilateral; retina
• No more than one (1) exam every two (2) months will be considered medically reasonable and necessary to manage the patient whose primary ophthalmological condition is related to a retinal disease that is not undergoing active treatment. *

*Note: Please see next bullet if undergoing active treatment.

• No more than one (1) exam per month will be considered medically reasonable and necessary to manage the patient with retinal conditions undergoing active treatment. These conditions include wet AMD, choroidal neovascularization, macular edema, diabetic retinopathy (proliferative and nonproliferative), branch retinal vein occlusion, central retinal vein occlusion, and cystoid macular edema. With the development of treat and extend protocols for patients with wet AMD treated with antiangiogenic drugs, it is expected that SCODI (unilateral or bilateral) will be used for therapeutic decision making and utilized at a maximum of monthly with subsequent less frequency based on the patient treatment protocol and patient response as documented in the medical record.

In addition, other conditions which may undergo rapid clinical changes monthly requiring aggressive therapy and frequent follow-up (e.g., macular hole and traction retinal detachment) may also require monthly scans.

• No more than one (1) exam per year will be considered medically reasonable and necessary for patients being treated with CQ and/or HCQ. These patients should receive a baseline examination within the first year of treatment and as an annual follow-up after five years of treatment. For higher-risk patients, annual testing may begin immediately (without a 5-year delay).

Sources of Information

Contractor is not responsible for the continued viability of websites listed.

Bibliography


Florida Blue Medical Coverage Guideline 01-92000-17 Scanning Computerized Ophthalmic Diagnostic Imaging; effective 04/17/2000; revised 10/01/2016.


Other Contractor's LCDs

National Government Services, Inc. Local Coverage Determination (LCD) Scanning Computerized Ophthalmic Diagnostic Imaging (SCODI) (L34380).

Novitas Solutions, Inc. Local Coverage Determination (LCD): Scanning Computerized Ophthalmic Diagnostic Imaging (L35038)

Contractor Medical Directors

First Coast Service Options, Inc. Local Coverage Determination (LCD): Scanning Computerized Ophthalmic Diagnostic Imaging (L33751) with effective dates prior to 01/25/2018.

### Revision History Information

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<td>11/28/2019</td>
<td>R17</td>
<td>Revision Number: 14 Publication: November 2019 Connection LCR A/B2019-075 Explanation of Revision: Based on Change Request (CR) 10901, the LCD was revised to remove all billing and coding and all language not related to reasonable and necessary provisions (&quot;Bill Type Codes,&quot; &quot;Revenue Codes,&quot; &quot;CPT/HCPCS Codes,&quot; and &quot;ICD-10 Codes that Support Medical Necessity&quot; sections of the LCD) and place them into a newly created billing and coding article. In addition, the IOM reference section was updated. The effective date of this revision is for claims processed on or after January 8, 2019, for dates of service on or after October 3, 2018.</td>
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<td>02/19/2019</td>
<td>R16</td>
<td>Revision Number: 13 Publication: March 2019 Connection LCR A/B2019-024 Explanation of Revision: Based on Change Request 10951, the LCD was revised to update the IOM Citation in the “CMS National Coverage Policy” section of the LCD. CMS IOM Publication 100-09, Chapter 5 was removed and CMS IOM</td>
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<td>01/29/2019</td>
<td>R15</td>
<td>Publication 100-04, Chapter 23, Section 20.9 was added. The effective date of this revision is for claims processed on or after 02/19/2019, for dates of service on and after 12/11/2018.</td>
<td>Other (Revisions based on review.)</td>
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<td>05/31/2018</td>
<td>R14</td>
<td>Revision Number: 11</td>
<td>Reconsideration Request</td>
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<td>Publication: February 2019 Connection</td>
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<td>Explanation of Revision: Based on review of the LCD, grammatical errors were corrected. The effective date of this revision is based on process date. Also, based on CR 10901, the “Coverage Indications, Limitations, and/or Medical Necessity” section of the LCD was revised to update the section number for Pub. 100-08, Chapter 13 from 13.5.1 to 13.5.4. In addition, “Pub. 100-08, Chapter 13, Section 13.5.4” was added to the “CMS National Coverage Policy” section of the LCD. The effective date of this revision is for claims processed on or after 01/08/2019, for dates of service on or after 09/26/2018.</td>
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<td>Revision Number: 10</td>
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<td><strong>Explanation of Revision:</strong> The local coverage determination (LCD) was revised to update the following sections: “Coverage Indications, Limitations, and/or Medical Necessity,” “History/Background and/or General Information,” “Covered Indications,” “Limitations,” “CPT/HCPCS Codes,” ICD-10 Codes that Support Medical Necessity,” “Documentation**</td>
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<td>10/01/2017</td>
<td>R12</td>
<td>Requirements,” and “Utilization Guidelines.” Language in these sections was revised to address the reasonable &amp; necessary requirements for SCODI procedures. A background/history for these procedures was added to the LCD. The indications and limitations of coverage were revised to include SCODI services that will and will not be considered medically reasonable and necessary. Diagnosis codes were revised due to inappropriate codes in the LCD following ICD-10-CM transition. Additional requirements were added to the “Documentation Requirements” section of the LCD. Utilization parameters were added for patients whose primary ophthalmological condition is related to a retinal disease and patients with retinal conditions undergoing active intravitreal drug treatment. In addition, the “Sources of Information and Basis for Decision” section of the LCD has been updated. The effective date of this revision is based on date of service.</td>
<td>• Revisions Due To ICD-10-CM Code Changes</td>
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<tr>
<td>02/14/2017</td>
<td>R11</td>
<td><strong>Revision Number: 10</strong></td>
<td>• Other</td>
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<td><strong>Publication: N/A</strong></td>
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<td><strong>LCR A/B 2017-007</strong></td>
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<td><strong>Explanation of Revision:</strong> The &quot;CPT/HCPCS Codes&quot; section of the LCD was revised to remove CPT code 92132 from the &quot;Group 1 Codes:&quot; and create a &quot;Group 2 Codes:&quot; to include</td>
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<tr>
<td>REVISION HISTORY DATE</td>
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<td>REVISION HISTORY EXPLANATION</td>
<td>REASON(S) FOR CHANGE</td>
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<tr>
<td>10/01/2016</td>
<td>R10</td>
<td>CPT code 92132 to align with how the diagnosis groups are set up under the &quot;ICD-10 Codes that Support Medical Necessity&quot; section of the LCD. The effective date of this revision is based on process date</td>
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</tr>
<tr>
<td>07/22/2016</td>
<td>R9</td>
<td>Revision Number: 9 Publication: October 2016 Connection LCR A/B2016-097</td>
<td>Revisions Due To ICD-10-CM Code Changes</td>
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<td>07/22/2016</td>
<td>R9</td>
<td>Revision Number: 8 Publication: July 2016 Connection LCR A/B 2016-084</td>
<td>Revisions Due To ICD-10-CM Code Changes</td>
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<tr>
<td>02/18/2016</td>
<td>R8</td>
<td>Revision Number: 7 Publication: February 2016 Connection LCR A/B 2016-041</td>
<td>Other Revisions Due To ICD-10-CM Code Changes</td>
</tr>
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</table>

Explanation of Revision: Based on CR 9677 (Annual 2017 ICD-10-CM Update) the LCD was revised. Deleted diagnosis codes E08.359, E09.359, E10.359, E11.359, and E13.359 and revised diagnosis code ranges as follows: E08.311-E08.359 to read E08.311-E08.3599, E09.311-E09.359 to read E09.311-E09.3599, E10.311-E10.359 to read E10.311-E10.3599, E11.311-E11.359 to read E11.311-E11.3599, and E13.311-E13.359 to read E13.311-E13.3599. Added new ICD-10-CM diagnosis code ranges E08.37X1-E08.37X9, E09.37X1-E09.37X9, E10.37X1-E10.37X9, E11.37X1-E11.37X9, and E13.37X1-E13.37X9. Changed diagnosis code ranges H34.811-H34.819 to H34.8110-H34.8192 and H34.831H34.839 to H34.8310-H34.8392 in "Group 1 codes that support medical necessity", section of the LCD and H34.811–H34.839 to H34.8110-H34.8392 in the "Limitations of Coverage for Posterior Segment SCODI" section of the LCD. Added ICD-10-CM code Z79.84 for CPT code 92134. The effective date of this revision is based on date of service.

Explanation of Revision: Based on CR 9677 (Annual 2017 ICD-10-CM Update) the LCD was revised. Deleted diagnosis codes E08.359, E09.359, E10.359, E11.359, and E13.359 and revised diagnosis code ranges as follows: E08.311-E08.359 to read E08.311-E08.3599, E09.311-E09.359 to read E09.311-E09.3599, E10.311-E10.359 to read E10.311-E10.3599, E11.311-E11.359 to read E11.311-E11.3599, and E13.311-E13.359 to read E13.311-E13.3599. Added new ICD-10-CM diagnosis code ranges E08.37X1-E08.37X9, E09.37X1-E09.37X9, E10.37X1-E10.37X9, E11.37X1-E11.37X9, and E13.37X1-E13.37X9. Changed diagnosis code ranges H34.811-H34.819 to H34.8110-H34.8192 and H34.831H34.839 to H34.8310-H34.8392 in "Group 1 codes that support medical necessity", section of the LCD and H34.811–H34.839 to H34.8110-H34.8392 in the "Limitations of Coverage for Posterior Segment SCODI" section of the LCD. Added ICD-10-CM code Z79.84 for CPT code 92134. The effective date of this revision is based on date of service.

Explanation of revision: This LCD was revised to include ICD-10 diagnosis code Z03.89 in the “ICD-10 Codes that Support Medical Necessity” section of the LCD for CPT code 92134. The effective date of this revision is for claims processed on or after 07/22/2016, for dates of service on or after 10/01/15.

Explanation of revision: This LCD was revised to include ICD-10 diagnosis codes H40.032 and H40.033 in the “ICD-10 Codes that Support Medical Necessity” section of the LCD for
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<tr>
<th>REVISION HISTORY DATE</th>
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<th>REVISION HISTORY EXPLANATION</th>
<th>REASON(S) FOR CHANGE</th>
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<tbody>
<tr>
<td>02/18/2016</td>
<td>R7</td>
<td>CPT codes 92132. The effective date of this revision is for claims processed on or after 02/18/2016, for dates of service on or after 10/01/15. In addition, the LCD was revised to add language to the “Indications of Coverage for Posterior Segment SCODI” section of the LCD to clarify retinal disease coverage. The effective date of this revision is based on claims processed on or after 02/18/16.</td>
<td>• Revisions Due To ICD-10-CM Code Changes</td>
</tr>
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- Revision Number: 7
- Publication: February 2016 Connection
- LCR A/B 2016-041

- Explanation of revision: This LCD was revised to include ICD-10 diagnosis codes H40.032 and H40.033 in the “ICD-10 Codes that Support Medical Necessity” section of the LCD for CPT codes 92132. The effective date of this revision is for claims processed on or after 02/18/2016, for dates of service on or after 10/01/15. |

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<th>10/01/2015</th>
<th>R6</th>
<th>Revision Number: 6</th>
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<td>Publication: November 2015 Connection</td>
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- Explanation of revision: This LCD was revised to include ICD-10 code range H59.031–H59.039 in the “Indications and Limitations of Coverage and/or Medical Necessity” and “ICD-10 Codes that Support Medical Necessity” sections of the LCD for CPT codes 92133 and 92134. The effective date of this revision is for claims processed on or after 11/19/2015, for dates of service on or after 10/01/15. |

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<tr>
<th>10/01/2015</th>
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<th>Revision Number: 5</th>
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<td>Publication: November 2015 Connection</td>
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<td>LCR A/B 2015                                                                anchise</td>
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</table>

- Explanation of revision: LCD revised to add additional ICD-10-CM diagnosis codes H43.00-H43.9 to the “ICD-10 Codes that Support Medical Necessity” section of the LCD. The effective date of this revision is for claims processed on or after 10/29/15, for dates of service on or after 10/01/15. |

| 10/01/2015            | R4                      | 10/28/2015-Added ICD-10 code range; H43.00—H43.9 Vitreous prolapse, unspecified eye—Unspecified disorder of vitreous body.                                                                                               | • Other (Added ICD-10 code range; H43.00—H43.9) | • Revisions Due To ICD-10-CM Code Changes |
|-----------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------|

**Vitreous prolapse, unspecified eye—Unspecified disorder of vitreous body.**
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<th>REVISION HISTORY EXPLANATION</th>
<th>REASON(S) FOR CHANGE</th>
</tr>
</thead>
<tbody>
<tr>
<td>10/01/2015</td>
<td>R3</td>
<td>5/29/2015-The language and/or ICD-10-CM diagnoses were updated to be consistent with the current ICD-9-CM LCD’s language and coding.</td>
<td>ICD-10-CM Code Changes • Provider Education/Guidance</td>
</tr>
<tr>
<td>10/01/2015</td>
<td>R2</td>
<td>04/22/15- The language and/or ICD-10-CM diagnoses were updated to be consistent with the current ICD-9-CM LCD’s language and coding.</td>
<td>Provider Education/Guidance</td>
</tr>
<tr>
<td>10/01/2015</td>
<td>R1</td>
<td>06/05/2014 – The language and/or ICD-10-CM diagnoses were updated to be consistent with current LCD language and ICD-9-CM coding.</td>
<td>Provider Education/Guidance • New/Updated Technology • Revisions Due To ICD-10-CM Code Changes</td>
</tr>
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**Associated Documents**

**Attachments**

N/A

**Related Local Coverage Documents**

Article(s)

A57804 - Billing and Coding: Scanning Computerized Ophthalmic Diagnostic Imaging (SCODI)

A55824 - Response to Comments: L33751 Scanning Computerized Ophthalmic Diagnostic Imaging (SCODI)

**Related National Coverage Documents**

N/A

**Public Version(s)**

Updated on 11/21/2019 with effective dates 11/28/2019 - N/A

Updated on 02/21/2019 with effective dates 02/19/2019 - 11/27/2019

Updated on 02/01/2019 with effective dates 01/29/2019 - 02/18/2019

Updated on 06/20/2018 with effective dates 05/31/2018 - 01/28/2019

Some older versions have been archived. Please visit the MCD Archive Site to retrieve them.

**Keywords**

N/A

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