

Policy Replaced with LCD L34555 Effective February 26, 2018



BlueCross BlueShield
of Alabama

Name of Blue Advantage Policy: Multispectral Digital Skin Lesion Analysis

Policy #: 616
Category: Medicine

Latest Review Date: December 2017
Policy Grade: **Effective 12/20/17:
Active policy but no
longer scheduled for
regular literature
reviews and update.**

Background:

Blue Advantage medical policy does not conflict with Local Coverage Determinations (LCDs), Local Medical Review Policies (LMRPs) or National Coverage Determinations (NCDs) or with coverage provisions in Medicare manuals, instructions or operational policy letters. In order to be covered by Blue Advantage the service shall be reasonable and necessary under Title XVIII of the Social Security Act, Section 1862(a)(1)(A). The service is considered reasonable and necessary if it is determined that the service is:

1. *Safe and effective;*
2. *Not experimental or investigational*;*
3. *Appropriate, including 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 need; and*
 - *At least as beneficial as an existing and available medically appropriate alternative.*

Routine costs of qualifying clinical trial services with dates of service on or after September 19, 2000 which meet the requirements of the Clinical Trials NCD are considered reasonable and necessary by Medicare. Providers should bill **Original Medicare for covered services that are related to **clinical trials** that meet Medicare requirements (Refer to Medicare National Coverage Determinations Manual, Chapter 1, Section 310 and Medicare Claims Processing Manual Chapter 32, Sections 69.0-69.11).*

Description of Procedure or Service:

Multispectral digital skin lesion analysis (MSDSL) is a noninvasive approach to diagnosing skin lesions; the technique has the potential to improve diagnostic accuracy for suspicious skin lesions and may increase the detection rate of malignant skin lesions and/or reduce the rate of unnecessary biopsies.

Melanoma is a form of skin cancer that originates in the pigment-producing melanocytes. Most melanocytes produce melanin and the tumors are commonly pigmented brown or black. Melanoma is less common than basal and squamous cell skin cancer, but it is more likely to metastasize than other skin cancers. Prognosis is highly associated with stage of the disease at diagnosis, characterized by the depth of the tumor, the degree of ulceration and the extent of spread to lymph nodes and distant organs. For example, for thin (i.e., $\geq 1.0\text{mm}$) localized stage I cancers the 5 year survival rate is over 90% and this decreases to around 15 to 20% for metastatic stage IV cancers. Thus, early detection of disease is important for increasing survival.

Diagnosis

Differentiating melanoma lesions from benign pigmented lesions in the clinical setting is challenging. Diagnostic aids such as the ABCDE rule have been developed to assist clinicians when they visually inspect suspicious lesions. The diagnostic accuracy of the ABCDE criteria varies depending on whether they are used singly or together. Use of a single criterion is sensitive but not specific, which would result in many benign lesions being referred or biopsied. Conversely, use of all criteria together is specific but not sensitive, meaning that a number of melanomas are missed.

There is interest in noninvasive approaches that will improve the diagnosis of malignant skin lesions. One technique is dermatoscopy (also called dermoscopy) which enables the clinician to perform direct microscopic examination of diagnostic features in pigmented skin lesions. Devices consist of a 10x magnifier lens in combination with a liquid medium or polarized light to eliminate reflection and allow for more-detailed examination of suspicious skin lesions. The available evidence from prospective randomized controlled trials (RCTs) and other studies suggests that dermatoscopy used by specialists may lead to a decrease in the number of benign lesions excised and, when used by primary care physicians, may lead to fewer benign lesions being referred to specialists.

Another technology that can potentially improve melanoma detection and outcomes is multispectral digital skin lesion analysis (MSDSL). A U.S. Food and Drug Administration (FDA) approved multispectral digital skin lesion analysis device uses a handheld scanner to shine visible light on the suspicious lesion. The light is of 10 wavelengths, varying from blue (430 nm) and near infrared (950 nm). The light can penetrate up to 2.5 mm under the surface of the skin. The data acquired by the scanner are analyzed by a data processor; the characteristics of each lesion are evaluated using proprietary computer algorithms. Lesions are classified as positive (i.e., high degree of morphologic disorganization) or negative (i.e., low degree of morphologic disorganization) according to the algorithms. Positive lesions are recommended for biopsy. For negative lesions, other clinical factors are considered in the decision of whether to refer to biopsy. The FDA-approved system (see details in the Regulatory Status section) is

intended only for suspicious pigmented lesions on intact skin and for use only by trained dermatologists.

In May 2017, the manufacturer of MelaFind® announced that it would no longer support or commercialize the device.

Policy:

Effective for dates of service on or after February 26, 2018 refer to LCD L34555

Effective for dates of service prior to February 26, 2018:

Blue Advantage will treat **multispectral digital skin lesion analysis** as a **non-covered benefit** in all situations and as **investigational** including, but not limited to:

- Evaluating pigmented skin lesions
- Serially monitoring pigmented skin lesions
- Defining peripheral margins of skin lesions suspected of malignancy prior to excision.

Blue Advantage does not approve or deny procedures, services, testing, or equipment for our members. Our decisions concern coverage only. The decision of whether or not to have a certain test, treatment or procedure is one made between the physician and his/her patient. Blue Advantage administers benefits based on the members' contract and medical policies. Physicians should always exercise their best medical judgment in providing the care they feel is most appropriate for their patients. Needed care should not be delayed or refused because of a coverage determination.

Key Points:

This evidence review has been updated regularly with searches of the MEDLINE database. The most recent literature update was performed through October 16, 2017. In May 2017, the manufacturer of MelaFind® announced that it would no longer continue to support or commercialize the device.

The evaluation of multispectral digital skin lesion analysis (MSDSL A) for diagnosis focuses on three main principles: (1) technical reliability (ability of the test to detect the marker that is present, or in excluding a marker that is absent); (2) clinical validity (diagnostic performance of the test [sensitivity, specificity, positive and negative predictive values] in detecting clinical disease or defining prognosis); and (3) clinical utility (i.e., a demonstration that the diagnostic or prognostic information can be used to improve patient health outcomes).

This review addresses the use of MSDSL A for the evaluation of pigmented lesions suspicious for malignancy. No published evidence was identified on the use of MSDSL A for monitoring skin lesions or for evaluating cancerous lesions referred for surgery. The following is a summary of the key literature to date.

Multispectral Digital Skin Lesion Analysis for Evaluating Pigmented Skin Lesions

Clinical Context and Test Purpose

The use of MSDSLA devices is intended to inform decisions whether patients with pigmented lesions should undergo a biopsy. It is not clearly defined whether MSDSLA is intended to select patients for biopsy (rule in) or to select those who may undergo observation (rule out). The Food and Drug Administration (FDA) Summary of Safety and Effectiveness Data (SSED) document for MelaFind® suggests that positive lesions based on MelaFind® should be considered for biopsy while biopsy decisions for negative lesion based on MelaFind® should be based on “the remainder of the entire clinical context”.³ Several algorithms have been developed to identify skin lesions that should be referred for biopsy based on dermoscopy.

The question addressed in this evidence review is: Does using MSDSLA improve the net health outcome in individuals with pigmented skin lesions?

The following PICOTS were used to select literature to inform this review.

Patients

The relevant population of interest is individuals with pigmented lesions being evaluated for melanoma. The MelaFind® FDA SSED states that the test is intended for “atypical cutaneous pigmented lesions with one or more clinical or historical characteristics of melanoma, excluding those with a clinical diagnosis of melanoma or likely melanoma,” and for lesions with a diameter between 2mm and 22mm.

Interventions

The intervention of interest is MSDSLA. The MelaFind® device is an FDA-approved MSDSLA device. In May 2017, the manufacturer of MelaFind® announced it they would no longer support or commercialize the device.

Comparators

Decisions about which pigmented lesions should undergo a biopsy are typically made by naked-eye and dermoscopic examination. A 2008 meta-analysis of studies of dermoscopy and naked-eye examination in the diagnosis of melanoma estimated the sensitivity of naked-eye examination combined with dermoscopy to detect melanoma to be 90% (95% confidence interval [CI], 80% to 95%), with a specificity of 90% (95% CI, 57% to 98%).⁷ It is unclear whether MelaFind® is intended to be used as an adjunct to naked-eye examination and/or dermoscopy or as a replacement.

Outcomes

The primary outcome of interest is the comparison of MSDSLA with biopsy results. True positive tests results could lead to a correct biopsy of malignant lesions. True negative tests would potentially reduce unnecessary biopsies. No direct harms of the device are expected. False-positive test results could lead to unnecessary increased screening or biopsy. False-negative test results could lead to delays in diagnosis, which could allow the condition to worsen before treatment.

Time

The time frame of interest is the time to biopsy.

Setting

Many suspicious lesions are identified in primary care. Biopsies may be ordered from primary care or after referral to dermatology. Diagnostic accuracy of both naked-eye and dermoscopy is higher for dermatologists compared with primary care physicians, but accuracy of diagnosis in primary care can be improved with short training sessions.⁸⁻¹¹ The FDA SSED states that the MelaFind® device should be used by physicians trained in the diagnosis and management of skin cancer who have completed a training program for MelaFind®.³ Analytic Validity

Technical Reliability

As with any test, it is important to establish its technical reliability- the ability of the test to measure accurately and reliably the characteristic of interest for which the test was designed to identify or measure. Assessment of technical reliability focuses on specific tests and operators and requires review of unpublished and often proprietary information. Review of specific tests, operators, and unpublished data are outside the scope of this review. We focus on the clinical validity and clinical utility.

Clinical Validity

Similar to other diagnostic tools, the assessment of MSDSLA technology involves a determination of its diagnostic accuracy compared with a reference standard; then, it must be determined whether the results of the diagnostic tests can be used to improve health outcomes. The reference standard for evaluation of pigmented skin lesions is excision with histologic diagnosis, in which, depending on the skill of the pathologist, sensitivity and specificity are considered near 100%. Clinically, noninvasive techniques such as MSDSLA would be used in combination with clinical assessment, either based on direct visual inspection or review of photographs. Therefore, the diagnostic performance of MSDSLA combined with clinical assessment should be compared with clinical assessment alone, and then a comparison should be made with the reference standard of histology. In addition, health outcomes in patients managed with MSDSLA vs standard care (clinical assessment alone, or clinical assessment and dermatoscopy) should be evaluated.

Most published studies to date on MSDSLA were industry-sponsored and/or had authors who were employees of or consultants for MELA Sciences.

A study published by Monheit et al in 2011 contained the data submitted to the FDA for approval of the MelaFind device. This was a prospective study and it included patients with at least 1 pigmented lesion scheduled for first-time biopsy. Lesions were between 2 mm and 22 mm in diameter. The following were exclusion criteria: anatomic site was not accessible to the device; lesion was not intact (e.g., open sores, ulcers, bleeding); lesion was on a palmar, plantar, or mucosal surface or under nails; lesion was in an area of visible scarring; and the lesion contained tattoo ink, splinter, or other foreign matter. In addition, lesions with a prebiopsy diagnosis of melanoma were excluded from the analysis. Histologic diagnosis was used as the reference standard.

A total of 1393 patients with 1831 lesions were enrolled at major academic centers. Of the 1831 lesions, 1632 (90%) were eligible and evaluable. There were 165 lesions not evaluable for various reasons including operator error and camera malfunction and ineligibility after enrollment related to scarring. Histologic analysis determined that 127 (7.8%) of 1632 lesions were melanoma. The sensitivity of MSDSLA for recommending biopsy of the melanoma lesions was 98.2% (125/127 melanomas), with a 95% lower CI bound of 95.6%. The average specificity (averaged over clinicians) of MSDSLA for melanoma was 9.5%. The accuracy of clinician diagnosis was determined by randomly selecting 25 melanoma cases and matching them with 25 nonmelanoma lesions. Clinicians were asked to classify the lesions into categories of melanoma: cannot rule out melanoma or not melanoma. The specificity of clinician diagnosis, as determined by the proportion of melanomas among the total number of lesions recommended for biopsy, was 3.7%, which was significantly lower than the specificity for MSDSLA ($p=0.02$). The Monheit et al study only included lesions that had previously been examined clinically and were determined to be sufficiently suspicious to warrant biopsy. The study did not include patients initially presenting with pigmented lesions to see whether MelaFind can enhance the accuracy of diagnosis based on clinical examination findings alone.

In 2016, Winkelman et al reported on further analysis of the same 1632 lesions, to correlate MSDSLA classifier scores with histopathological severity and clinical features of melanoma. The mean classifier scores were higher for melanomas (mean 3.5) than for high grade lesions (2.7, $P=0.002$), low-grade dysplastic nevi (7.1, $P<0.0001$), non-dysplastic nevi (1.6, $P<0.0001$), and benign non-melanocytic lesions (2.0, $P<0.0001$).

In 2015, Winkelmann et al reported on the diagnostic accuracy of Melafind for evaluating suspicious lesions obtained from patients undergoing routine skin examination in a community practice. Dermatologists identified suspicious lesions and selected them for biopsy. Prior to biopsy, the lesions were imaged with Melafind (all met the FDA-approved indication for use of the device). (The study protocol did not involve re-evaluation of images using MSDSLA findings). Lesions were then biopsied and diagnostic accuracy of MSDSLA for these lesions was determined compared to histopathological analysis of samples. A total of 137 consecutive lesions scheduled for biopsy were included in the study. MSDSLA categorized 21 of these lesions as having “low disorganization” (negative MSDSLA finding). All 21 of these were histologically benign (11 mildly dysplastic nevi, 9 seborrheic keratosis and 1 compound nevus). The remaining 116 lesions were categorized by MSDSLA as having high disorganization (positive MSDSLA finding). A total of 99 of these (85%) were considered to be “true positives” i.e., malignant melanoma, lesions with atypical melanocytic proliferation or moderately and severely dysplastic nevi. The study population included only 1 melanoma and this was categorized by MSDSLA as having high disorganization. An advantage of this study was that it was prospective and conducted in a practice setting. However, as with the Monheit et al study, this study did not evaluate the ability of MSDSLA to enhance the accuracy of biopsy decisions.

In 2016, Song et al reported on a smaller study comparing the diagnostic accuracy of MDLSA with reflectance confocal microscopy (RCM) in the pre-biopsy detection of melanoma in 55 atypical-appearing lesions from 36 patients undergoing biopsy. MDSLA was performed with MelaFind and RCM was performed with VivaScope, by separate evaluators who were blinded to

the other's evaluation. RCM was more sensitive than MDSLA (P=0.001.) For the diagnosis of melanoma, MDSLA had a sensitivity of 71.4%.

Fink et al reported the performance of MelaFind® in a clinical setting. The study included retrospective analysis of 360 pigmented lesions with one or more clinical or historical characteristics of melanoma but for which there were not unequivocal features of melanoma (ie, "atypical pigmented skin lesion"). The lesions were from 111 patients evaluated by office-based dermatologists. Surgical excision decisions were made by the examining dermatologists using MelaFind® results and other clinical information; a description of the other information used was not provided. Of the 360 pigmented skin lesions, 147 (41%) were graded as a MelaFind® score of 2 or more (ie, suspicious for malignancy); 14 of these were excluded because they were biopsied elsewhere, and 26 were not excised at the physician's discretion; 107 lesions with MelaFind® score of 2 or more were excised (86 patients), and an additional six with a MelaFind® score less than 2 were excised. Among excised lesions, the sensitivity and specificity of a MelaFind® score of 2 or more were 100% and 5.5%, respectively, and the positive and negative predictive values were 2.8% and 100%, respectively; CIs were not given. Assuming the lesions with a MelaFind® score less than 2 that were not biopsied were negative, the specificity would be 68.5%, although the follow-up was insufficient to confirm that the lesions were actually benign.

Other studies have reported on the clinical performance of image-based classifiers other than MelaFind. In 2016, Ferris et al reported on the training and validation of a novel classifier. The classifier was trained on a malignant test set that included 105 melanomas, 29 high-grade dysplastic nevi, 23 basal cell carcinomas (BCC), and 3 squamous cell carcinomas, and a benign training set composed of 93 benign melanocytic lesions and 20 other benign lesions. In receiver-operating characteristic (ROC) curve analysis, with a threshold severity score of 0.4 the area under the curve (AUC) was 0.818. The classifier's performance was evaluated in a test set containing 39 melanomas, 11 basal cell carcinomas, 3 squamous cell carcinomas, and 120 benign lesions, all with available biopsy results, and 27 lesions that were considered not appropriate for biopsy by 2 dermatologists. It had a sensitivity of sensitivity for melanoma of 97.4% (95% CI 86.5% to 99.9%). Among the 120 benign lesions, 53 were correctly classified as benign (specificity: 44.2%, 95% CI 35.1% to 53.5%), and among the 27 unbiopsied lesions, 20 were classified as benign (specificity: 74.1%, 95% CI 53.7% to 88.9%).

Section Summary: Clinical Validity

One prospective study reported on the sensitivity and specificity of MelaFind, with high sensitivity. These results would need to be replicated in an independent sample, with appropriate confidence intervals.

Clinical Utility

Direct evidence of clinical utility of MSDSLA would be demonstrated if its use leads to management changes that improve outcomes. This would ideally be evaluated in prospective randomized controlled trials (RCTs) examining health outcomes in patients presenting with pigmented lesions that were managed with and without the technology. RCTs would ideally compare MSDSLA to clinical examination and dermatoscopy. No studies of this type were identified.

Indirect evidence on clinical utility rests on clinical validity. If the evidence is insufficient to demonstrate test performance, no inferences can be made about clinical utility.

One RCT has been published; however, it was conducted over the internet rather than a clinical setting and involved retrospective analysis of lesions. The study was published in 2014 by Hauschild et al in Germany. The study included 215 board certified dermatologists selected on a first-come basis after receiving invitations to participate. Each participant was presented with information on 130 pigmented lesions, 93% had been biopsied in a prior study. Half of the lesions were melanomas and half were non-melanomas. (The lesions were a subset of evaluable lesions from the Monheit et al trial, previously described. All lesions met the FDA-cleared indications for MelaFind). Study participants were randomized to review clinical examination information and high-quality digital images only (n=108) or clinical information, high-quality digital images and the MSDSLA result (n=107). After reviewing each case, participants completed a survey about their lesion management decision e.g., recommendation for biopsy. A decision was considered correct if melanoma lesions were recommended for biopsy or if non-melanoma lesions were not recommended for biopsy. Before examining the cases, participants were shown an online slide presentation about MelaFind including the device's performance data.

Among dermatologists in the arm without MSDSLA findings, the sensitivity and specificity of biopsy was 69.5% (95% CI: 64.3 to 76.0%) and 55.9% (47.3 to 60.5%). In the arm with MSDSLA findings, the sensitivity and specificity was 78.0% (95% CI: 73.9 to 83.5%) and 45.8% (38.1 to 50.8%). The difference in sensitivity and specificity between arms was statistically significant ($p < 0.00001$).

Some nonrandomized studies have evaluated whether use of MSDSLA leads to management changes. These studies were not conducted in clinical settings, and it is unclear whether the selection of lesion types and study participants (dermatologists) were representative of actual practice.

Several industry-sponsored simulation exercises were conducted at professional conferences. For example, in 2015, Winkelman et al reported on 60 healthcare providers, 30 of whom were dermatologists, who participated in an exercise at a national dermoscopy conference. Participants were shown images of 12 lesions previously analyzed using MSDSLA using the MelaFind device. They were asked 3 times whether they would biopsy the lesion: 1) based on clinical images alone; 2) with the addition of high-resolution dermoscopic images; and 3) with the addition of MSDSLA classifier scores. The 12 lesions consisted of 2 melanomas in situ, 3 invasive melanomas and 7 low-grade dysplastic nevi. Diagnostic accuracy did not increase after being shown dermoscopic images but did increase after getting MSDSLA scores. The proportion of dermatologists responding that they would biopsy all 5 malignant melanomas was 4% with clinical images alone, 10% after dermoscopy and 72% after MSDSLA. Proportions among non-dermatologists were 13%, 6% and 78% respectively. Conversely, among dermatologists, the proportion of low-grade dysplastic nevi recommended for biopsy was 53% with clinical images alone, 60% after dermoscopy and 42% after MSDSLA. Among dermatologists, proportions were 53%, 66% and 45%, respectively. The changes in biopsy recommendations after MSDSLA were statistically significant in all cases. Other studies

conducted at conferences that used similar methodology had comparable results; biopsy decision accuracy increased significantly after clinicians were provided with MSDSLA findings. Without health outcome data, studies of how physicians use medical tests, or how they may change behavior based on medical tests, do not provide significant additional data to inform clinical utility.

Section Summary: Clinical Utility

No direct evidence for the clinical utility of MSDSLA in the management of pigmented lesions was identified. In addition, given the absence of firm evidence about the clinical validity of MSDSLA, a chain of inference cannot be built to support conclusions about the magnitude of benefits and harms of the use of MSDSLA in practice. Therefore, conclusions cannot be made about the clinical utility of MSDSLA.

Summary of Evidence

For individuals who have pigmented lesions being evaluated for melanoma who receive MSDSLA, the evidence includes two prospective diagnostic accuracy studies of MelaFind®, a retrospective analysis of MelaFind® in a clinical setting, and additional studies of other MSDSLA devices. Relevant outcomes are overall survival, disease-specific survival, test accuracy and validity, other test performance measures, and change in disease status. The diagnostic accuracy study found that MSDSLA had a sensitivity of 98.2% for recommending biopsy of melanoma lesions (8% of the pigmented lesions were melanoma). The average specificity of MSDSLA was 9.5% compared with 3.7% among clinicians. However, the study only included lesions already determined by a clinician to be sufficiently suspicious to warrant excision. No prospective studies conducted in a clinical setting have evaluated the utility of MSDSLA as a diagnostic tool in the initial evaluation of pigmented lesions. In addition, given the absence of firm evidence about the clinical validity of MSDSLA, a chain of inference cannot be built to support conclusions about the magnitude of benefits and harms of MSDSLA use in practice. The manufacturer discontinued support and commercialization of the MelaFind® device in 2017. The evidence is insufficient to determine the effects of the technology on health outcomes.

Practice Guidelines and Position Statements

National Comprehensive Cancer Network

National Comprehensive Cancer Network guidelines on melanoma (v.1.2018)¹⁴ do not address multispectral digital skin lesion analysis.

National Institute for Health and Care Excellence

The National Institute for Health and Care Excellence guidance on the assessment and management of melanoma does not address multispectral digital skin lesion analysis.

U.S. Preventive Services Task Force Recommendations

Not applicable

Key Words:

Digital skin lesion analysis, MelaFind, MSDSLA, pigmented skin lesions

Approved by Governing Bodies:

A multispectral digital skin lesion analysis device called MelaFind® (MELA Sciences, Irvington, NY, now Strata Skin Sciences, Horsham, PA) was approved by the U.S. Food and Drug Administration (FDA) in November 2011. Its intended use is to evaluate pigmented lesions with clinical or histologic characteristics suggestive of melanoma. It is not intended for lesions with a diagnosis of melanoma or likely melanoma. MelaFind is intended for use only by physicians trained in the clinical diagnosis and management of skin cancer (i.e., dermatologists) and only those who have additionally successfully completed training on the MelaFind device. FDA documents further note:

“MelaFind is indicated only for use on lesions with a diameter between 2 mm and 22 mm, lesions that are accessible by the MelaFind imager, lesions that are sufficiently pigmented (i.e., not for use on nonpigmented or skin-colored lesions), lesions that do not contain a scar or fibrosis consistent with previous trauma, lesions where the skin is intact (i.e., nonulcerated or nonbleeding lesions), lesions greater than 1 cm away from the eye, lesions which do not contain foreign matter, and lesions not on special anatomic sites (i.e., not for use on acral, palmar, plantar, mucosal, or subungual areas).”

Benefit Application:

Coverage is subject to member’s specific benefits. Group specific policy will supersede this policy when applicable.

Current Coding:

CPT Codes:

0400T	Multi-spectral digital skin lesion analysis of clinically atypical cutaneous pigmented lesions for detection of melanomas and high risk melanocytic atypia; one to five lesions (Effective 01/01/16)
0401T	; six or more lesions (Effective 01/01/16)

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Policy History:

Adopted for Blue Advantage, December 2015

Available for comment January 1 through February 14, 2016

Medical Policy Group, December 2016

Medical Policy Group, December 2017

Medical Policy Group, February 2018

This medical policy is not an authorization, certification, explanation of benefits, or a contract. Eligibility and benefits are determined on a case-by-case basis according to the terms of the member's plan in effect as of the date services are rendered. All medical policies are based on (i) research of current medical literature and (ii) review of common medical practices in the treatment and diagnosis of disease as of the date hereof. Physicians and other providers are solely responsible for all aspects of medical care and treatment, including the type, quality, and levels of care and treatment.

This policy is intended to be used for adjudication of claims (including pre-admission certification, pre-determinations, and pre-procedure review) in Blue Cross and Blue Shield's administration of plan contracts.