Reimbursement Policy:

In Vitro Chemoresistance and Chemosensitivity Assays - Lab Benefit Program (LBM)

POLICY NUMBER	EFFECTIVE DATE:	APPROVED BY
AHS-G2100	3/01/2023	RPC (Reimbursement Policy Committee)

Reimbursement Guideline Disclaimer: We have policies in place that reflect billing or claims payment processes unique to our health plans. Current billing and claims payment policies apply to all our products, unless otherwise noted. We will inform you of new policies or changes in policies through postings to the applicable Reimbursement Policies webpages on emblemhealth.com. Further, we may announce additions and changes in our provider manual and/or provider newsletters which are available online and emailed to those with a current and accurate email address on file. The information presented in this policy is accurate and current as of the date of this publication.

The information provided in our policies is intended to serve only as a general reference resource for services described and is not intended to address every aspect of a reimbursement situation. Other factors affecting reimbursement may supplement, modify or, in some cases, supersede this policy. These factors may include, but are not limited to, legislative mandates, physician or other provider contracts, the member's benefit coverage documents and/or other reimbursement, and medical or drug policies. Finally, this policy may not be implemented the same way on the different electronic claims processing systems in use due to programming or other constraints; however, we strive to minimize these variations.

We follow coding edits that are based on industry sources, including, but not limited to, CPT® guidelines from the American Medical Association, specialty organizations, and CMS including NCCI and MUE. In coding scenarios where there appears to be conflicts between sources, we will apply the edits we determine are appropriate. We use industry-standard claims editing software products when making decisions about appropriate claim editing practices. Upon request, we will provide an explanation of how we handle specific coding issues. If appropriate coding/billing guidelines or current reimbursement policies are not followed, we may deny the claim and/or recoup claim payment.

POLICY DESCRIPTION | INDICATIONS AND/OR LIMITATIONS OF COVERAGE | DEFINITIONS | SCIENTIFIC BACKGROUND | GUIDELINES AND RECOMMENDATIONS | APPLICABLE STATE AND FEDERAL REGULATIONS | APPLICABLE CPT/HCPCS PROCEDURE CODES | EVIDENCE-BASED SCIENTIFIC REFERENCES | REVISION HISTORY

Policy Description:

In vitro chemotherapy sensitivity and resistance assays refer to any in vitro laboratory analysis that is performed specifically to evaluate whether tumor growth is inhibited by a known chemotherapy drug or, more commonly, a panel of drugs.[1,2]

Indications and/or Limitations of Coverage:

Application of coverage criteria is dependent upon an individual's benefit coverage at the time of the request. Specifications pertaining to Medicare and Medicaid can be found in the "Applicable State and Federal Regulations" section of this policy document.

The following does not meet coverage criteria due to a lack of available published scientific literature confirming that the test(s) is/are required and beneficial for the diagnosis and treatment of an individual's illness.

1) In vitro chemosensitivity assays (e.g., histoculture drug response assay, fluorescent cytoprint assay) **DO NOT MEET COVERAGE CRITERIA**.

2) In vitro chemoresistance assays (e.g., extreme drug resistance [EDR] assays) **DO NOT MEET COVERAGE CRITERIA**.

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Definitions:

Term	Definition
5-FU	5-Fluorouracil
AML	Acute myelocytic leukemia
ASCO	American Society of Clinical Oncology
ATP-CRA	Adenosine triphosphate-based chemotherapy response assay
ATP-TCA	Adenosine triphosphate-tumor chemosensitivity
CDR	Cell death rate
CLIA ’88	Clinical Laboratory Improvement Amendments Of 1988
CMS	Centers For Medicare and Medicaid
CR	Complete remission
CSC	Cancer stem cells
DISC	Differential staining cytotoxicity
EDR	Extreme drug resistance
FDA	Food and Drug Administration
HDRA	Histoculture drug response assay
HTCA	Human tumor cell assays
KU	Kinetic units
LCA	Local coverage article
LCD	Local coverage determination
LDT	Laboratory-developed test
MDR	Multiple drug resistance
MiCK	Microculture-kinetic
MTT	3-(4,5-Dimethylthiazol-2-yl)-2,5-Diphenyltetrazolyum Bromide
NCCN	National Comprehensive Cancer Network
OR	Odds ratio
OS	Overall survival
PFS	Progression-free survival
RGCC	Regulator of cell cycle
RPPA	Reverse phase protein array
TMZ	Temozolomide

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Scientific Background:

Chemotherapy treatment recommendation has long been based on carefully designed clinical studies in large patient populations and provide an individual patient with a probability for response based on clinically observed response rates. This approach has led to major progress in clinical oncology and has helped to identify successful therapeutic regimens for patients with many cancers. However, the response rates are relatively low, and there are still many cancers for which there is only marginal treatment. Tumor cells isolated from these patients often are resistant to a wide range of anticancer drugs. In addition, it is becoming clear that each individual patient's tumor is genotypically and phenotypically different.[2]

Chemotherapy sensitivity and resistance assays may also be called human tumor stem cell drug sensitivity assays, tumor stem cell assays, clonogenic or nonclonogenic cytotoxic drug resistance assays, or differential staining cytotoxic assays. These tests were developed to determine if a patient with cancer might be resistant or sensitive to a specific chemotherapy treatment prior to use. A chemosensitivity assay detects the effects (cytotoxic, apoptotic, and so on) of a given chemotherapeutic agent outside an organism. The assays vary, but typically they follow the same steps: cells from the patient are isolated, incubated with the chemotherapeutic agent, and assessed for cell survival and cell response.[2,3] This allows clinicians to evaluate the effects of the chemotherapeutic agent without unnecessary exposure to cells. However, there are difficulties with these assays; for example, the potency of a chemotherapeutic agent may only be seen after time has elapsed.

Many assays have been created to assess the potency of chemotherapeutic agents, including proprietary tests such as ChemoFX and ChemoINTEL, as well as non-proprietary assays such as 3-(4,5-dimethylthiazol-2-yl)-2,5-diphenyltetrazolyum bromide (MTT), adenosine triphosphate-tumor chemosensitivity (ATP-TCA), and differential staining cytotoxicity (DISC).[3]

Chemosensitivity assays typically rely on the use of cell cultures within the presence of the anticancer agent(s). For example, the MTT procedure involves culturing tumor cells with anticancer agents, then adding MTT, which is reduced to a blue dye in the cell. The intensity of the uptake allows the user to estimate the drug resistance of the tumor cells. DISC cultures tumor cells in three different concentrations of the drug, incubates them for six days, then uses differential dye staining to identify viable cells.[2] Several additional proprietary assays exist, such as ChemoFX (from Helomics), which exposes tumor cells to increasing doses of chemotherapeutic drugs; then, the number of live cells remaining post-treatment is counted. These counts are combined into a dose-response curve, which is used to categorize a tumor's response as "responsive," "intermediate response," or "non-responsive."[4] Another proprietary test is the assay from Pierian Biosciences.[5,6] This test relies on drug-induced apoptosis with the quantification of tumor cells' response to chemotherapeutic agents. This test is now branded as ChemoINTEL.[6] A third proprietary test comes from RGCC, marketed as "Onconomics RGCC." This test evaluates both molecular markers and viability assessments to determine efficacy of certain drugs. It follows the same pattern as the previously discussed tests, i.e., developing cell cultures and examining effects of chemotherapeutic agents on their population.[7] Other proprietary assays include human tumor cell assays (HTCA) and human tumor cloning assays.

Another technique is the Extreme Drug Resistance assay (EDR®), which takes cultured cells and exposes them to high concentrations of chemotherapeutic agents for long exposure times. The exposure time to agents for these cells is typically more than 100 times that of what a patient would receive in a regular chemotherapy session. The goal is to isolate the chemotherapeutics that would be of *least* clinical benefit in the treatment process.[8]

Recent advances have led to new proprietary tests on the market, such as the KIYATEC Inc. ex vivo 3D cell culture technology, which evaluates the "specific response of a patient's cancer to various treatment modalities and predict[s] response before you initiate treatment" using 3D cell cultures created from a patient's live tumor tissue that was acquired through surgical biopsy or resection.[9]

Clinical Utility and Validity

Tatar, et al. (2016) conducted a study to assess three in vitro chemosensitivity assays in ovarian carcinoma. A total of 26 patients with ovarian carcinoma contributed tumoral tissue, and three assays (the MTT assay, the ATP-TCA assay, and the DISC assay) were used to evaluate the chemosensitivity of paclitaxel, carboplatin, docetaxel, topotecan, gemcitabine, and doxorubicin. The authors stated that all three assays correlated reasonably well with each other and are "particularly useful for serous and advanced cancers." However, they caution that "large prospective studies comparing standard versus assay-directed therapy with an endpoint of overall survival are required before routine clinical utilization of these assays."[3]

Kwon, et al. (2016) evaluated the usefulness of the in vitro adenosine triphosphate-based chemotherapy response assay (ATP-CRA) for prediction of clinical response to fluorouracil-based adjuvant chemotherapy in stage II colorectal cancer. Tumor specimens of 86 patients with stage II colorectal adenocarcinoma were tested for chemosensitivity to fluorouracil, and chemosensitivity was determined by cell death rate (CDR) of the drug-exposed cells. In total, 11 of the 86 patients had a recurrence, and the group with CDR ≥20% was associated with better disease-free survival than the group under 20%. The authors concluded that "in stage II colorectal cancer, the in vitro ATP-CRA may be useful in identifying patients likely to benefit from fluorouracil-based adjuvant chemotherapy."[10]

Krivak, et al. (2014) conducted an observational study to evaluate if the ChemoFx assay can identify patients who are platinum-resistant prior to treatment. The study included 276 individuals with International Federation of Gynecology and Obstetrics stage III-IV ovarian, fallopian, and peritoneal cancer, and the responsiveness of their tumors was evaluated. All patients were treated with a platinum/taxane regimen following cytoreductive surgery. The authors found that the patients whose tumors were resistant to carboplatin were at increased risk of disease progression compared to those who were nonresistant. The authors stated that "assay resistance to carboplatin is strongly associated with shortened PFS among advanced-stage epithelial ovarian cancer patients treated with carboplatin + paclitaxel therapy, supporting use of this assay [ChemoFx] to identify patients likely to experience early recurrence on standard platinum-based therapy."[11]

Rutherford, et al. (2013) conducted a prospective study evaluating the use of ChemoFx assay in recurrent ovarian cancer patients. The study included 252 individuals with persistent or recurrent ovarian cancer and fresh tissue samples were collected for chemoresponse testing. Patients were treated with one of 15 protocol-designated treatments empirically selected by the oncologist, blinded to the assay results. Patients were prospectively monitored for progression-free survival (PFS) and overall survival (OS). Patients treated with an assay-sensitive regimen demonstrated significantly improved PFS and OS while there was no difference in clinical outcomes between intermediate and resistant groups. The researchers concluded that the "study demonstrated improved PFS and OS for patients with either platinum-sensitive or platinum-resistant recurrent ovarian cancer treated with assay-sensitive agents."[12]

Hoffman (2018) conducted a study investigating the clinical correlation of histoculture drug response assay (HDRA) in 29 advanced gastric and colon cancer patients. The authors revealed that all 29 were being treated with drugs considered "ineffective" by the HDRA. However, nine patients were also being treated with drugs identified as "effective" by the HDRA, and these patients showed response or arrest of disease progression. The authors investigated another subset of 32 patients treated with mitomycin C and 5-fluorouracil (5-FU) and whom had advanced gastric cancer. Ten patients were identified as "sensitive" to these drugs, and their survival rates were higher than the other 22 whose tumors were "insensitive." A separate 128-patient subset had their tumors evaluated by the HDRA, and the overall and disease-free survival rate was higher for the sensitive group compared to the resistant group. Overall, both "sensitive" groups experienced higher survival rates.[13]

Strickland, et al. (2013) evaluated the correlation of the MiCK assay with patient outcomes in initial treatment of adult acute myelocytic leukemia (AML). A total of 109 patients with untreated AML contributed samples for the MiCK assay. The amount of apoptosis was measured over 48 hours and standardized to "kinetic units" of apoptosis (KU). The authors observed that complete remission (CR) was "significantly" higher in patients with high idarubicin-induced apoptosis (>3 KU) compared to patients with <3 KU. A multivariate analysis indicated the only significant variable to be idarubicin-induced apoptosis. The authors concluded, "Chemotherapy-induced apoptosis measured by the MiCK assay demonstrated significant correlation with outcomes and appears predictive of complete remission and overall survival for patients receiving standard induction chemotherapy."[14]

Howard, et al. (2017) developed and assessed a "chemopredictive" assay (ChemoID), which was intended to identify the most effective chemotherapy out of a panel of selected treatments. ChemoID evaluates the efficacy of chemotherapies using a patient's live tumor cells, as well as the cancer stem cells (CSC) that are purported to cause recurrence in patients. The study included 42 glioblastoma patients who were treated with standard of card temozolomide (TMZ). Clinical outcomes such as "tumor response, time to recurrence, progression-free survival (PFS), and overall survival (OS). Odds ratio (OR) associations of 12-month recurrence, PFS, and OS outcomes" were estimated. The authors found that for every 5% increase in CSC kill by TMZ, 12-month patient response (defined as "nonrecurrence of cancer") increased by 2.2-fold. The authors also identified a less significant association with the bulk tumor cells; a 5% increase in bulk tumor cell kill corresponded with a 2.75-fold increase in nonresponse ($p = .07$). At >40% cell kill for CSC and >55% cell kill for bulk tumor cells, the area under curve was 0.989. Median recurrence time was 20 months for patients with a positive (defined as >40%) CSC test, compared to three months for patients with a negative test. Similarly, median recurrence time was 13 months for patients with a positive bulk tumor cell test (>55%), compared to four months for a negative test. Finally, the ChemoID CSC results were found to "potentially" identify more optimal treatments in 34 patients, while the bulk tumor results may have resulted in more optimal treatments in 27 patients. Overall, the authors concluded that "the ChemoID CSC drug response assay has the potential to increase the accuracy of bulk tumor assays to help guide individualized chemotherapy choices."[15]

Chen, et al. (2018) evaluated in vitro chemosensitivity and multiple drug resistance (MDR) using an ATP-based tumor chemosensitivity assay (ATP-TCA). The authors evaluated 120 lung cancer patients' chemosensitivity to eight single drug chemotherapies and 291 lung cancer patients' chemosensitivity to seven chemotherapy regimens. Additionally, 284 lung adenocarcinoma patients and 90 lung squamous cell carcinoma patients were evaluated for chemosensitivity to both single-drug and chemotherapy regimens. Authors found that "PTX (51.7%), TXT (43.3%), GEM (12.5%), PTX+DDP (62.5%), TXT+L-OHP (54.3%) and VP-16+DDP (16.2%) had the highest in vitro chemosensitivity rates." Additionally, approximately 37.1% of patients developed resistance to eight single-drug chemotherapies; 25.8% showed resistance to all seven chemotherapy regimens. In conclusion, testing for drug sensitivity before chemotherapy could assist in preventing the "occurrence of primary drug resistance and inappropriate drug treatment."[16]

Shuford, et al. (2021) investigated whether a direct, live tumor 3D cell-based assay could predict clinical therapeutic response before treatment for patients with high grade glioma. The authors used a 3D cell culture test that was validated for drug concentration, timing, and reproducibility. The 3D cell-based assay predicted the response of patients to temozolomide in 17/20 (85%, P= .007) patients seven days before surgery and before treatment began. Patients who responded to the test had a median over-all survival rate of 11.6 months post-surgery compared with a 5.9-month survival rate ($P = .0376$) for those that did not respond to the cell-based assay. The ex vivo assay also effectively provided evidence for when to use dabrafenib when NGS results did not. The authors noted that the study "both validates the developed assay analytically and clinically and provides case studies of its implementation in clinical practice."[17]

Guidelines and Recommendations:

American Society of Clinical Oncology (ASCO)

The 2011 clinical practice guideline update states that: “The use of chemotherapy sensitivity and resistance assays to select chemotherapeutic agents for individual patients is not recommended outside of the clinical trial setting. Oncologists should make chemotherapy treatment recommendations on the basis of published reports of clinical trials and a patient’s health status and treatment preferences. Because the in-vitro analytic strategy has potential importance, participation in clinical trials evaluating these technologies remains a priority.”[18]

National Comprehensive Cancer Network

The NCCN Practice Guidelines in Oncology for Ovarian Cancer state that: “chemosensitivity/resistance and/or other biomarker assays are being used at some NCCN Member Institutions for decisions related to future chemotherapy in situations where there are multiple equivalent chemotherapy options available. The current level of evidence is not sufficient to supplant standard of care chemotherapy.”[19] This is a category three recommendation (based on any level of evidence but reflects major disagreement).

Chemosensitivity/resistance testing is not mentioned in the guidelines for gastric, colon, or prostate cancers.[20]

Applicable State and Federal Regulations:

DISCLAIMER: If there is a conflict between this Policy and any relevant, applicable government policy for a particular member [e.g., Local Coverage Determinations (LCDs) or National Coverage Determinations (NCDs) for Medicare and/or state coverage for Medicaid], then the government policy will be used to make the determination. For the most up-to-date Medicare policies and coverage, please visit the Medicare search website: https://www.cms.gov/medicare-coverage-database/search.aspx. For the most up-to-date Medicaid policies and coverage, visit the applicable state Medicaid website.

Food and Drug Administration (FDA)

Many labs have developed specific tests that they must validate and perform in house. These laboratory-developed tests (LDTs) are regulated by the Centers for Medicare and Medicaid (CMS) as high-complexity tests under the Clinical Laboratory Improvement Amendments of 1988 (CLIA ’88). LDTs are not approved or cleared by the U. S. Food and Drug Administration; however, FDA clearance or approval is not currently required for clinical use.

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Applicable CPT/HCPCS Procedure Codes:

CPT	Code Description
81535	Oncology (gynecologic), live tumor cell culture and chemotherapeutic response by DAPI stain and morphology, predictive algorithm reported as a drug response score; first single drug or drug combination Proprietary test: ChemoFX® Lab/manufacturer: Helomics, Corp
81536	Oncology (gynecologic), live tumor cell culture and chemotherapeutic response by DAPI stain and morphology, predictive algorithm reported as a drug response score; each additional single drug or drug combination (List separately in addition to code for primary procedure) Proprietary test: ChemoFX® Lab/manufacturer: Helomics, Corp
86849	Unlisted immunology procedure
88104	Cytopathology, fluids, washings or brushings, except cervical or vaginal; smears with interpretation
88199	Unlisted cytopathology procedure
88305	Level IV - Surgical pathology, gross and microscopic examination
88313	Special stain including interpretation and report; Group II, all other (eg, iron, trichrome), except stain for microorganisms, stains for enzyme constituents, or immunocytochemistry and immunohistochemistry
88358	Morphometric analysis; tumor (eg, DNA ploidy)
89050	Cell count, miscellaneous body fluids (eg, cerebrospinal fluid, joint fluid), except blood
89240	Unlisted miscellaneous pathology test

Procedure codes appearing in Medical Policy documents are included only as a general reference tool for each policy. They may not be all-inclusive.

Evidence-based Scientific References:

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20. NCCN. NCCN Clinical Practice Guidelines in Oncology. https://www.nccn.org/professionals/physician_gls/default.aspx

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Revision History

Company(ies)	DATE	REVISION
EmblemHealth	10/2025	• Updated for clarity; no changes to coverage criteria • Removed the following codes from the Applicable CPT/HCPCS Procedure Codes table: ○ 0564T, 0083U, 0248U, 0249U, 0285U, 0435U, 0285U and 0525U
EmblemHealth	10/2025	• Transferred policy content to individual company-branded template. No changes to policy title or policy number.
EmblemHealth ConnectiCare	11/2024	• Addition of HCPCS code 0435U to Applicable CPT/HCPCS Procedure Codes table **effective 3/15/2025**
EmblemHealth	7/2024	• Lab Benefit Program (LBM) expanded to include EmblemHealth HMO/ PPO (Non-City) Commercial, Medicare and Medicaid plans **effective 10/1/2024**
EmblemHealth ConnectiCare	11/2023	• Updated for clarity; no changes to coding or coverage criteria
EmblemHealth ConnectiCare	11/2022	• Reformatted and reorganized policy, transferred content to new template with new Reimbursement Policy Number