

Flow Cytometry

Policy MP-044

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Disclaimer:

1. Policies are subject to change in accordance with State and Federal notice requirements.
2. Policies outline coverage determinations for U of U Health Plans Commercial, CHIP and Healthy U (Medicaid) plans. Refer to the "Policy" section for more information.
3. Services requiring prior-authorization may not be covered, if prior-authorization is not obtained.
4. **This Medical Policy does not guarantee coverage or payment of the service. The service must be a benefit in the member's plan and the member must be eligible for coverage at the time of service. Additional payment guidelines may be applied that are not included in this policy.**

Description:

Flow cytometry is a laboratory test used to evaluate cells from blood, bone marrow, body fluids such as cerebrospinal fluid (CSF), or tumor tissue which is treated with special antibodies. Each antibody sticks only to certain types of cells that have the antigens that fit with it. The cells are then passed in front of a laser beam. If the cells now have those antibodies, the laser will make them give off light that's then measured and analyzed by a computer.

It can also be used to measure the amount of DNA in cancer cells (called ploidy). Instead of using antibodies to detect protein antigens, cells can be treated with special dyes that react with DNA. If there's a normal amount of DNA, the cells are said to be diploid, an abnormal amount of cells are aneuploid. Most aneuploid cancers of (but not all) organs tend to grow and spread faster than diploid ones.

Flow cytometry is beneficial for the diagnosis, prognosis and monitoring of hematopoietic cancers, including lymphomas and leukemia, plasma cell neoplasms, myelodysplastic syndromes, myeloproliferative neoplasms, and certain anemias, human immunodeficiency virus/acquired immunodeficiency syndrome (HIV/AIDS), primary immunodeficiency disorders, molar pregnancies, paroxysmal hemoglobinuria and monitoring after transplantation. It is also used to detect the presence of minimal residual disease and antigens used as therapeutic drug targets for cancer therapy.

Policy Statement and Criteria

1. Commercial Plans/CHIP

U of U Health Plans considers flow cytometry medically necessary for the following assessment of these conditions:

- A. Cytopenias, lymphomas, acute leukemia and lymphoproliferative disorders or;
- B. B-cell monitoring for immunosuppressive disorders;
- C. Chronic Lymphocytic Leukemia (CLL) & Other Chronic Lymphoproliferative Diseases (CLPD)
- D. Hypercellular Hematolymphoid Disorders
- E. Mast cell neoplasms
- F. Minimal Residual Disease (MRD)
- G. Molar pregnancy
- H. Multiple Myeloma
- I. Myelodysplastic syndrome & Chronic Myeloproliferative Disorders (CMPD)
- J. Paroxysmal nocturnal hemoglobinuria
- K. Plasma cell disorders
- L. Post-operative monitoring of members who have undergone organ transplantation
- M. Primary Immunodeficiencies (PIDs), and PIDs involving T, NK
- N. Primary Platelet Disorders, Non-neoplastic
- O. Red Cell and White Cell Disorders, Non-neoplastic
- P. T-cell monitoring for HIV infection and AIDS

Limitations: Since flow cytometry immunophenotypes for most common lymphomas and leukemias are well characterized, U of U Health Plans does NOT consider it “reasonable and necessary” to perform more than 24 markers in a panel. Therefore, for any indication the quantity limit is 24 units total of 88184-88189

When atypical or unusual FCM (Fuzzy C-Mean) results are obtained, the selective addition of more markers may be indicated. The flow cytometry report must document the specific indication for each marker over the 24 marker limit. The FCM report must document the specific indication for each marker over the 24-marker limit. FCM reports without clear justification for each marker over 24 will be denied.

A Flow cytometry performed more than every 3 months to monitor stable HIV infection is not considered reasonable or necessary. More frequent studies may be indicated if a patient develops drug resistance and needs to be treated with another antiviral(s).

U of U Health Plans does NOT cover flow cytometry in any other circumstances as it is considered investigational because its effectiveness has not been established.

2. Medicaid Plans

Coverage is determined by the State of Utah Medicaid program; if Utah State Medicaid has no published coverage position and InterQual criteria are not available, the U of U Health Plans Commercial criteria will apply. For the most up-to-date Medicaid policies and coverage, please visit their website at: <https://medicaid.utah.gov/utah-medicaid-official-publications/> or the [Utah Medicaid code Look-Up tool](#)

CPT/HCPCS codes covered by Utah State Medicaid may still require further evaluation to determine medical necessity for coverage.

Clinical Rationale

In 2007 two studies (Davis et.al. and Wood et al.) published findings from the Bethesda International Consensus Recommendations, on the clinical use of flow cytometry (FC) of hematolymphoid neoplasia along with optimal reagents and reporting for the flow cytometric diagnosis of hematopoietic neoplasia. According to the panel, flow cytometry demonstrated usefulness for the evaluation of cytopenias, elevated leukocyte count, observation of atypical cells or blasts and evaluation of body fluids, plasmacytosis or monoclonal gammopathy, organomegaly and tissue masses, and certain patient monitoring indications. However, they did not indicate it for mature neutrophilia, polyclonal hypergammaglobulinemia, polycythemia, thrombocytosis, and basophilia because “they are usually not associated with hematolymphoid malignancy or associated with hematolymphoid neoplasms that are not detectable by” flow cytometry.

As for the reagents of the initial evaluation panel, Bethesda recommendations suggest that the selections should be based on specimen type (peripheral blood, bone marrow, tissue, etc.), clinical information and cell morphology studies. They also identified initial panels for specific indications that range from 4 to a maximum of 12 reagents.

In 2007 Davis et al., reported on the international consensus recommendations for medical indications, regarding the use of flow cytometry for hematologic neoplasia. They support use of FC for the following clinical indications; cytopenias, elevated leukocyte count, identification of blasts in the marrow or peripheral blood, plasmacytosis or monoclonal gammopathy, tissue-based lymphoid neoplasia, lymph adenopathy, staging disease to document the extent of involvement, detecting potential therapeutic targets, assessment of response to therapy (e.g., minimal residual disease), documentation of progression or relapse, diagnosis of related disease (e.g., treatment-related or coincidental), documentation of disease acceleration, prognostication. The report concluded that the role of FC is important for selection or development of personalized treatment and encouragement for the development of new strategies. However, the biological analyses of neoplasms exceed personalized treatment options, thus, further clinical trials and periodic reviews are needed to assess the medical indications of FC to keep up with scientific and clinical advancements.

A 2013 retrospective correlational study (Dayal et al.) reported results on the application of multiparameter flow cytometry and examined the clinical and biomarker associations in 201 formalin-fixed, paraffin-embedded previously banked breast cancer specimens. Tumors were grouped into 4 categories based on the DNA index of the tumor cell population. Univariate statistical analysis

demonstrated significant association with tumor category and prognosis in three of four tumor groups; however an independent association between tumor DNA content and overall survival was not confirmed by multivariate analysis. The authors found that the alterations in the DNA content show potential to further understandings on the mechanisms underlying clinically significant biomarker changes in breast cancer. However, more studies are needed before flow cytometry may be treated as a standard clinical practice for the detection of breast cancer ploidy or DNA index.

Flow cytometry is used in monitoring lymphocyte populations, (e.g., T-cells, natural killer [NK] cells), especially in individuals with a primary immunodeficiency disorder or HIV/AIDs by tracking the number and ratio of antigen-specific T cells (CD4, CD8). Flow cytometry is a critical tool and routine procedure for CD4 T-cell counting in peripheral blood of HIV1 patients for the management of HIV disease. Specifically, for guiding treatment against strategic infections, CD4 T-cell counting is used to measure the degree of immune deficiency, eligibility of HIV1 patients for antiretroviral treatment and to monitor immune restoration in an individual receiving antiretroviral therapy. CD4 T-cell counting is a valuable tool for directing treatment against opportunistic infections (Kestens et. al., 2017). Another clinical use of flow cytometry (Antin et al., 2001) is in understanding the biologic events that occur after transplantation, for instance, being able to detect lineage specific chimerism, graft rejection following transplantation, and to monitor the efficacy of immunosuppressive therapy.

And finally a 2019 study by Ye et al., examined flow cytometry and cytomorphology capabilities in detecting neuroblastoma cells in 21 patients with suspected neuroblastoma metastasis. Bone marrow and effusion specimens were tested by flow cytometry and cytomorphology. A total of 16 effusion (76.2%) and 9 BM (42.9%) specimens were classified by flow cytometry as positive for malignancy. Cytomorphology revealed 12 (57.1%) and 9 (42.9%) positive effusion and bone marrow specimens, respectively. Cytomorphology detected 3 effusions not detected by flow cytometry. There was no significant differences between flow cytometry and cytomorphology in the detection of neuroblastoma cells in effusions ($p = 0.344$). The authors concluded that flow cytometry may be used in conjunction with cytomorphology, however, additional studies are needed to establish improved health outcomes in the use of flow cytometry compared to current cytomorphology methods.

The National Comprehensive Cancer Network (NCCN®) Biomarkers Compendium® (2020): The Compendium notes that flow cytometry may be used to assess the following hematologic lymphoid cancers:

- Acute Lymphoblastic Leukemia
- Aids-Related Kaposi Sarcoma
- Castleman's Disease
- Chronic Lymphocytic Leukemia
- Leukemia
- Chronic Myelogenous Leukemia
- Lymphomas
- Hairy Cell Leukemia
- Myeloproliferative Neoplasms
- Myelodysplastic Syndromes (MDS)
- Multiple Myeloma
- Post-Transplant Lymphoproliferative Disorders
- Systematic Light Chain Amyloidosis
- Systemic Mastocytosis
- Waldenstrom's Macroglobinemia

Flow cytometry is not mentioned in the Compendium as a laboratory method used for the diagnosis or management of solid tumors, including any of the following: bladder, brain, breast, colon, endometrium, gastric, kidney, lung, neuroblastoma, ovary, prostate or rectum.

Applicable Coding

CPT Codes

88182	Flow cytometry, cell cycle or DNA analysis
88184	Flow cytometry, cell surface, cytoplasmic, or nuclear marker, technical component only; first marker
88185	Flow cytometry, cell surface, cytoplasmic, or nuclear marker, technical component only; each additional marker (List separately in addition to code for first marker)
88187	Flow cytometry, interpretation; 2 to 8 markers
88188	Flow cytometry, interpretation; 9 to 15 markers
88189	Flow cytometry, interpretation; 16 or more markers

HCPCS Codes

No applicable codes

ICD-10 Codes

A02.1	Salmonella sepsis	B38.9	Coccidioidomycosis, unspecified
A07.2	Cryptosporidiosis	B39.2	Pulmonary histoplasmosis capsulati, unspecified
A07.3	Isosporiasis	B39.3	Disseminated histoplasmosis capsulati
A15.0-A19.9	Tuberculosis	B39.4	Pneumocystosis
A31.0	Pulmonary mycobacterial infection	B45.0-B45.9	Cryptococcosis
A31.2	Disseminated mycobacterium avium-intracellulare complex (DMAC)	B58.2	Toxoplasma meningoencephalitis
A31.8	Other mycobacterial infections	B59	Pneumocystosis
A81.2	Progressive multifocal leukoencephalopathy	B97.33	Human T-cell lymphotropic virus, type I [HTLV-I] as the cause of diseases classified elsewhere
B00.0	Eczema herpeticum	B97.34	Human T-cell lymphotropic virus, type II [HTLV-II] as the cause of diseases classified elsewhere
B00.1	Herpes viral vesicular dermatitis	B97.35	Human immunodeficiency virus, type 2 [HIV 2] as the cause of diseases classified elsewhere
B00.2	Herpes viral gingivostomatitis and pharyngotonsillitis	C46.0-C46.9	Kaposi's sarcoma
B00.89	Other herpes viral infection	C53.0-C53.9	Malignant neoplasm of cervix uteri
B20	Human immunodeficiency virus [HIV] disease	C58	Malignant neoplasm of placenta
B25.0-B25.9	Cytomegaloviral disease	C81.0	Nodular lymphocyte predominant Hodgkin lymphoma
B37.1	Pulmonary candidiasis		
B37.81	Candidal esophagitis		
B37.89	Other sites of candidiasis		

C81.00 - C86.6	Malignant neoplasm of lymphoid, hematopoietic and related tissue	D47.09	Other mast cell neoplasms of uncertain behavior
C81.00-C81.99	Hodgkin lymphoma	D47.1	Chronic myeloproliferative disease
C82.0	Follicular lymphoma grade I	D47.2	Monoclonal gammopathy
C82.00-C82.99	Follicular lymphoma	D47.3	Essential (hemorrhagic) thrombocythemia
C83.00-C83.99	Non-follicular lymphoma	D47.4	Osteomyelofibrosis
C84.00-C84.99	Mature T/NK-cell lymphomas	D47.9	Neoplasm of uncertain behavior of lymphoid, hematopoietic and related tissue, unspecified
C84.4	Peripheral T-cell lymphoma, not classified	D47.Z1	Post-transplant lymphoproliferative disorder (PTLD)
C84.6	Anaplastic large cell lymphoma, ALK-positive	D47.Z2	Castleman disease
C84.7	Anaplastic large cell lymphoma, ALK-negative	D47.Z9	Other specified neoplasms of uncertain behavior of lymphoid, hematopoietic and related tissue
C84.9	Mature T/NK-cell lymphomas, unspecified	D50.0-D50.9	Iron deficiency anemia
C84.A-C84.A9	Cutaneous T-cell lymphoma, unspecified	D51.0-D51.9	Vitamin B12 deficiency anemia
C84.Z0-C84.Z9	Other mature T/NK-cell lymphomas	D52.9	Folate deficiency anemia, unspecified
C85.10-C85.19	Unspecified B-cell lymphoma	D53.0-D53.9	Other nutritional anemias
C85.10-C85.99	Other specified and unspecified types of non-Hodgkin lymphomas	D56.0-D56.9	Thalassemia
C86.0-C86.6	Other specified types of T/NK-cell lymphoma	D57.00-D57.819	Sickle-cell disorders
C88.0-C88.9	Malignant immunoproliferative diseases and certain other B-cell lymphomas	D58.0	Hereditary spherocytosis
C90.00-C90.32	Multiple myeloma and malignant plasma cell neoplasms	D58.2	Other hemoglobinopathies
C91.00-C91.92	Lymphoid leukemia	D58.9	Hereditary hemolytic anemia, unspecified
C92.00-C92.92	Myeloid leukemia	D59.0-D59.9	Acquired hemolytic anemia
C93.00-C93.92	Monocytic leukemia	D60.0-D60.9	Acquired pure red cell aplasia (erythroblastopenia)
C94.00-C94.82	Other leukemias of specified cell type	D61.01-D61.9	Other aplastic anemias and other bone marrow failure syndromes
C95.00-C95.92	Leukemia of unspecified cell type	D62	Acute post-hemorrhagic anemia
C96.0-C96.9	Other and unspecified malignant neoplasms of lymphoid, hematopoietic and related tissue	D63.0-D63.8	Anemia in chronic diseases classified elsewhere
D39.2	Neoplasm of uncertain behavior of placenta	D64.0-D64.9	Other anemias
D45	Polycythemia vera	D68.51	Activated protein C resistance
D46.0-D46.Z	Myelodysplastic syndromes	D68.52	Prothrombin gene mutation
D47.01	Cutaneous mastocytosis	D68.59	Other primary thrombophilia
D47.02	Systemic mastocytosis	D68.61	Antiphospholipid syndrome
		D68.62	Lupus anticoagulant syndrome
		D68.69	Other thrombophilia
		D69.0-D69.9	Purpura and other hemorrhagic conditions

D70.0-D70.9	Neutropenia	J90	Pleural effusion, not elsewhere classified
D71	Functional disorders of polymorphonuclear neutrophils	J91.0	Malignant pleural effusion
D72.0-D72.9	Other disorders of white blood cells	J91.8	Pleural effusion in other conditions classified elsewhere
D73.0-D73.9	Diseases of spleen	J94.0	Chylous effusion
D75.0-D75.9	Other and unspecified diseases of blood and blood-forming organs	M02.30-M02.39	Reiter's disease
D76.1-D76.3	Other specified diseases with participation of lymphoreticular and reticulohistiocytic tissue	O01.1-O01.9	Hydatidiform mole
D77	Other disorders of blood and blood-forming organs in diseases classified elsewhere	O02.0	Blighted ovum and nonhydatidiform mole
D80.0	Hereditary hypogammaglobulinemia	O98.71	Human immunodeficiency virus [HIV] disease complicating pregnancy
D80.0-D80.9	Immunodeficiency with predominantly antibody defects	R59.0-R59.9	Enlarged lymph nodes
D81.0-D81.9	Combined immunodeficiencies	R64	Cachexia
D82.0-D82.9	Immunodeficiency associated with other major defects	R75	Inconclusive laboratory evidence of human immunodeficiency virus [HIV]
D83.0-D83.9	Common variable immunodeficiency	R76.9	Abnormal immunological finding in serum, unspecified
D84.0-D84.9	Other immunodeficiencies	T86.00-T86.99	Complications of transplanted organs and tissue [postoperative monitoring]
D86.0	Sarcoidosis of lung	Z21	Asymptomatic human immunodeficiency virus [HIV] infection status
D86.1	Sarcoidosis of lymph nodes	Z48.21-Z48.298	Encounter for aftercare following organ transplant
D86.2	Sarcoidosis of lung with sarcoidosis of lymph nodes	Z52.001	Unspecified donor, stem cells
D86.85	Sarcoid myocarditis	Z52.011	Autologous donor, stem cells
D89.0-D89.9	Other disorders involving the immune mechanism, not elsewhere classified	Z52.091	Other blood donor, stem cells
E34.0	Carcinoid syndrome	Z52.3	Bone marrow donor
E85.0-E85.9	Amyloidosis	Z85.6	Personal history of leukemia
E88.01	Alpha-1-antitrypsin deficiency	Z85.71	Personal history of Hodgkin lymphoma
E88.02	Plasminogen deficiency	Z85.72	Personal history of non-Hodgkin lymphomas
E88.09	Other disorders of plasma-protein metabolism, not elsewhere classified	Z85.79	Personal history of other malignant neoplasms of lymphoid, hematopoietic and related tissues
G93.49	Other encephalopathy	Z94.0-Z94.9	Transplanted organ and tissue status [postoperative monitoring]
I89.0-I89.9	Other non-infective disorders of lymphatic vessels and lymph node		

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