

Mayo Algorithmic Approach for Stratification of Myeloma and Risk-Adapted Therapy Report, Bone Marrow

Reporting Title: mSMART Algorithmic Testing, BM **Performing Location:** Rochester

Ordering Guidance:

This test should be ordered at diagnosis or for a known relapsing patient of multiple myeloma and when MPCDS / mSMART, Plasma Cell Proliferative Disorder, FISH, Bone Marrow is requested.

For follow-up of a plasma cell neoplasm (plasma cell proliferative disorder), order MSMRD / Myeloma Stratification and Risk-Adapted Therapy with Reflex to Minimal Residual Disease, Bone Marrow.

Necessary Information:

Include patient's disease state (untreated, treated, monoclonal gammopathy of undetermined significance, stable).
Indicate if patient is on anti-CD38 therapy.

Specimen Requirements:

Specimen Type: Redirected bone marrow Preferred: Yellow top (ACD solution A or B Acceptable: Lavender top (EDTA) or green top (heparin) Specimen Volume: 4 mL

Specimen Minimum Volume:

3 mL

Forms:

If not ordering electronically, complete, print, and send a Hematopathology/Cytogenetics Test Request (T726) with the specimen.

Specimen Type	Temperature	Time	Special Container
Bone Marrow	Ambient (preferred)	72 hours	
	Refrigerated	72 hours	



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Result Codes:

Result ID	Reporting Name	Туре	Unit	LOINC®
CK056	Monotypic Plasma Cells:	Alphanumeric		93362-2
	Also used by tests: MSMRD, PCPRO			
CK057	Monotypic PC per Total Events	Alphanumeric	%	93021-4
	Also used by tests: PCPRO, MSMRD			
CK058	Monotypic Plasma Cells S-phase	Alphanumeric	%	93361-4
	Also used by tests: PCPRO, MSMRD			
CK059	Monotypic Plasma Cells DNA Index	Alphanumeric		93360-6
	Also used by tests: MSMRD, PCPRO			
CK060	Monotypic Plasma Cells DNA Ploidy	Alphanumeric		93359-8
	Also used by tests: MSMRD, PCPRO			
CK061	Polytypic PC per Total Events	Alphanumeric	%	93358-0
	Also used by tests: MSMRD, PCPRO			
CK062	Polytypic PC per All Plasma Cells	Alphanumeric	%	93020-6
	Also used by tests: PCPRO, MSMRD			
CK134	Final Diagnosis	Alphanumeric		22637-3

LOINC and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

88182-Flow cytometry, cell cycle or DNA analysis 88184-Flow cytometry; first cell surface, cytoplasmic or nuclear marker 88185 x 5-Flow cytometry; additional cell surface, cytoplasmic or nuclear marker (each) 88187-Flow cytometry interpretation, 2 to 8 Markers



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Reflex Tests:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
CSMRT	MPCDS Pre-Analysis Cell Sorting, BM			No	No
MPCDS	mSMART Eval, PCPDs, FISH			No	Yes (Order PCPDS)
MPCDB	Probe, Each Additional (MPCDS)			No	No (Bill Only)

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Туре	Unit	LOINC®
CSMRT	607682	MPCDS Pre-Analysis Cell Sort	Alphanumeric		No LOINC Needed
CSMRT	607688	Final Diagnosis	Alphanumeric		No LOINC Needed
MPCDS	606091	mSMART Result Summary	Alphanumeric		62357-9
MPCDS	606092	mSMART Evaluation	Alphanumeric		57802-1
MPCDS	606093	Interpretation	Alphanumeric		69965-2
MPCDS	606094	Result Table	Alphanumeric		93356-4
MPCDS	606095	Result	Alphanumeric		62356-1
MPCDS	606096	Reason for Referral	Alphanumeric		42349-1
MPCDS	606097	Specimen	Alphanumeric		31208-2
MPCDS	606098	Source	Alphanumeric		85298-8
MPCDS	606099	Method	Alphanumeric		85069-3
MPCDS	606100	Additional Information	Alphanumeric		48767-8
MPCDS	606101	Disclaimer	Alphanumeric		62364-5
MPCDS	606102	Released By	Alphanumeric		18771-6



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Reference Values:

PLASMA CELL CLONALITY: Normal bone marrow No monotypic clonal plasma cells detected

DNA INDEX: Normal polytypic plasma cells DNA index (G0/G1 cells): Diploid 0.95-1.05