Test Definition: SMART

Mayo Stratification for Myeloma and Risk-Adapted Therapy Report

Reporting Title: mSMART Evaluation, Marrow
Performing Location: Rochester

Specimen Requirements:

Provide a reason for referral and include disease state (untreated, treated, monoclonal gammopathy of undetermined significance, stable) with each specimen. The laboratory will not reject testing if this information is not provided, but appropriate testing and interpretation may be compromised or delayed.

PCPRO
Specimen Type: Redirected bone marrow
Preferred: Yellow top (ACD solution B)
Acceptable: EDTA, Heparin
Specimen Volume: 4 mL

Chromosome Analysis and PCPD FISH Testing
Specimen Type: Redirected bone marrow
Container/Tube: Green-top (sodium heparin)
Specimen Volume: 2 mL
Collection Instructions: Other anticoagulants are not recommended and are harmful to the viability of the cells.

Specimen Type	Temperature	Time
Bone Marrow	Ambient (preferred)	
	Refrigerated	

Ask at Order Entry (AOE) Questions:

Test ID	Question ID	Description	Type	Reportable
MBM	CG301	Reason For Referral	Plain Text	Yes
FPCPD	G_569	Reason For Referral	Plain Text	Yes

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
50477	Specimen	Alphanumeric		31208-2
50478	Specimen ID	Alphanumeric		
50479	Source	Alphanumeric		

Result ID	Reporting Name	Type	Unit	LOINC®
50490	Order Date	Alphanumeric		
CG301	Reason For Referral	Alphanumeric		42349-1
50492	Method	Alphanumeric		49549-9
50493	Banding Methods	Alphanumeric		62359-5
50553	Result	Alphanumeric		
50495	Interpretation	Alphanumeric		
50494	MSMART Evaluation	Alphanumeric		
50496	Amendment	Alphanumeric		
50497	Reviewed By	Alphanumeric		
50498	Release Date	Alphanumeric		
22613	Specimen **Also used by tests: FPCPD**	Alphanumeric		31208-2
22614	Specimen ID **Also used by tests: FPCPD**	Alphanumeric		
22615	Source **Also used by tests: FPCPD**	Alphanumeric		
22616	Order Date **Also used by tests: FPCPD**	Alphanumeric		
G_569	Reason For Referral **Also used by tests: FPCPD**	Alphanumeric		42349-1
22618	Method **Also used by tests: FPCPD**	Alphanumeric		49549-9
22619	Results **Also used by tests: FPCPD**	Alphanumeric		
22620	Interpretation **Also used by tests: FPCPD**	Alphanumeric		
22621	Amendment **Also used by tests: FPCPD**	Alphanumeric		
22622	Consultant **Also used by tests: FPCPD**	Alphanumeric		

Result ID	Reporting Name	Type	Unit	LOINC®
22623	Report Date **Also used by tests: FPCPD**	Alphanumeric		

Components:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
Billing only	DNA Probe, each	12	88271		
Billing only	Analyze 100-300 Cells	2	88275		
Billing only	Cryopreservation,freezing	1	88240		
Billing only	Tissue Culture for Bone Marrow	1	88237		
Billing only	Chromosome Analysis	1	88264		
Billing only	Interpretation and Report	1	88291		
Billing only	Cytogenetic Interp/Report	1	88291		
MBM	Chromosomes, mSMART Eval, Marrow			Yes	No
FPCPD	Plasma Cell Prolif Disorder, FISH		Profile	Yes	Yes

Reflex Tests:

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
PCPRO	Plasma Cell Proliferation, Marrow			Yes	Yes

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
PCPRO	CK056	Monotypic Plasma Cells:	Alphanumeric		
PCPRO	CK057	Monotypic PC per Total Events	Alphanumeric	%	
PCPRO	CK058	Monotypic Plasma Cells S-phase	Alphanumeric	%	
PCPRO	CK059	Monotypic Plasma Cells DNA Index	Alphanumeric		
PCPRO	CK060	Monotypic Plasma Cells DNA Ploidy	Alphanumeric		

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
PCPRO	CK061	Polytypic PC per Total Events	Alphanumeric	%	
PCPRO	CK062	Polytypic PC per All Plasma Cells	Alphanumeric	%	
PCPRO	CK063	Final Diagnosis	Alphanumeric		
88465	88465	Flow Cytometry Interp, 2-8 Markers			

Reference Values:

PCPRO
Estimated S-phase of >1.5% associated with more aggressive disease

CHROMOSOMES, mSMART EVALUATION
46,XX or 46,XY. No apparent chromosome abnormality.
An interpretative report will be provided.

PLASMA CELL PROLIFRATIVE DISORDER (PCPD)
An interpretative report will be provided.