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**Reporting Title:** COG, ALL (B-cell), FISH**Performing Location:** Rochester**Ordering Guidance:**

This test is only performed on specimens from pediatric patients being considered for enrollment in a Children's Oncology Group (COG) protocol. If this test is ordered and the laboratory is informed that the patient is not on a COG protocol, this test will be canceled and automatically reordered by the laboratory as BALPF / B-Cell Acute Lymphoblastic Leukemia/Lymphoma (ALL), FISH, Pediatric Varies.

At follow-up, conventional cytogenetic studies (CHRBM / Chromosome Analysis, Hematologic Disorders, Bone Marrow) and targeted B-cell ALL fluorescence in situ hybridization (FISH) probes can be evaluated based on the abnormalities identified in the diagnostic study. Order BALMF / B-Cell Acute Lymphoblastic Leukemia/Lymphoma (ALL), Specified FISH, Varies and request specific probes or abnormalities.

**Shipping Instructions:**

Advise Express Mail or equivalent if not on courier service.

**Necessary Information:**

1. A reason for testing, a flow cytometry and/or a bone marrow pathology report, and a Children's Oncology Group (COG) registration number and protocol number should be submitted with each specimen. The laboratory will not reject testing if this information is not provided; however, appropriate testing and interpretation may be compromised or delayed. If not provided, an appropriate indication for testing may be entered by Mayo Clinic Laboratories.
2. If a patient has received an opposite sex bone marrow transplant prior to specimen collection for this protocol, note this information on the request.

**Specimen Requirements:**

Submit only 1 of the following specimens:

Preferred:

Specimen Type: Bone marrow

Container/Tube:

Preferred: Yellow top (ACD)

Acceptable: Green top (heparin) or lavender top (EDTA)

Specimen Volume: 2 to 3 mL

Collection Instructions:

1. It is preferable to send the first aspirate from the bone marrow collection.
2. Invert several times to mix bone marrow.
3. Send bone marrow specimen in original tube. Do not aliquot.

Acceptable:

Specimen Type: Blood

Container/Tube:

Preferred: Yellow top (ACD)

Acceptable: Green top (heparin) or lavender top (EDTA)

Specimen Volume: 6 mL

Collection Instructions:

1. Invert several times to mix blood.
2. Send whole blood specimen in original tube. Do not aliquot.

**Specimen Minimum Volume:**

Blood: 2 mL

Bone Marrow: 1 mL

**Forms:**

If not ordering electronically, complete, print, and send a Children's Oncology Group Test Request (T829) with the specimen.

Specimen Type	Temperature	Time	Special Container
Varies	Ambient (preferred)		
	Refrigerated		

**Ask at Order Entry (AOE) Questions:**

Test ID	Question ID	Description	Type	Reportable
COGBF	GC019	Reason for Referral	Plain Text	Yes
COGBF	GC020	Specimen: <ul style="list-style-type: none"><li>• Whole blood ACD</li><li>• Bone marrow ACD</li><li>• Whole blood Na Hep</li><li>• Bone marrow Na Hep</li><li>• Whole blood EDTA</li><li>• Bone marrow EDTA</li></ul>	Answer List	Yes

**Result Codes:**

Result ID	Reporting Name	Type	Unit	LOINC®
602296	Result Summary	Alphanumeric		50397-9
602297	Interpretation	Alphanumeric		69965-2
602298	Result Table	Alphanumeric		93356-4
602299	Result	Alphanumeric		62356-1

Result ID	Reporting Name	Type	Unit	LOINC®
GC019	Reason for Referral	Alphanumeric		42349-1
GC020	Specimen	Alphanumeric		31208-2
602301	Source	Alphanumeric		31208-2
602302	Method	Alphanumeric		85069-3
602303	Additional Information	Alphanumeric		48767-8
602304	Disclaimer	Alphanumeric		62364-5
602305	Released By	Alphanumeric		18771-6

LOINC and CPT codes are provided by the performing laboratory.

**Supplemental Report:**

No

**CPT Code Information:**

88271 x 2, 88275, 88291-FISH Probe, Analysis, Interpretation; 1 probe set  
88271 x 2, 88275-FISH Probe, Analysis; each additional probe set (if appropriate)

**Reflex Tests:**

Test ID	Reporting Name	CPT Units	CPT Code	Always Performed	Orderable Separately
COGBB	Probe, Each Additional (COGBF)			No	No (Bill Only)

**Reference Values:**

An interpretive report will be provided.