

**PATIENT**

Patient: SAMPLE PATIENT  
DOB/Sex:  
MR/Chart #:  
Accession #:

**SPECIMEN**

Specimen: 1 BMBX, 2 BMA  
Collected: 10/25/2011  
Received: 10/26/2011  
All Specimens: 1 BMBX, 2 BMA

**PHYSICIAN**

SAMPLE DOCTOR  
Copies:  
REPORT DATE: 10/31/2011

**CLINICAL HISTORY:**

Anemia, NOS; MDS, Aranesp Therapy, Breast Cancer

**FINAL DIAGNOSIS:**

1. Extensive infiltration by Metastatic Carcinoma With Associated Desmoplasia, ER+/PR+, Consistent With Breast Primary.
2. Concurrent Therapy Related Myeloid Neoplasm with Associated del(11q) by FISH.

**COMPREHENSIVE ASSESSMENT:**

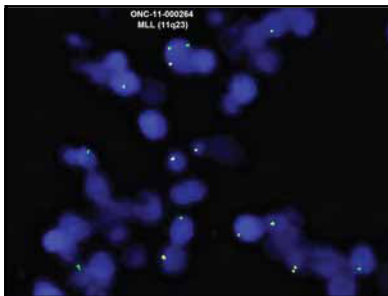
The marrow shows extensive infiltration by metastatic carcinoma, positive for ER and PR, consistent with breast primary. The associated desmoplasia explains the "dry tap." The finding of increased ring sideroblasts in conjunction with the identification of a del(11q) by FISH is consistent with a concurrent myelodysplastic syndrome, best classified as therapy-related myeloid neoplasm (t-MDS), WHO 2008 Classification. Clinical correlation is appreciated. These results were discussed with the Referring Physician on 10/31/2011.

**MORPHOLOGY:**

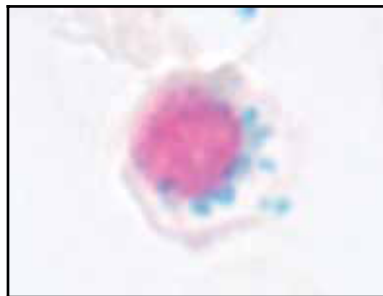
Bone Marrow, Biopsy and Touch Preparation:

1. Extensive infiltration by Metastatic Carcinoma With Associated Desmoplasia, ER+/PR+, Consistent With Breast Primary.
2. Foci Of Hypercellular Marrow With Trilineage Hematopoiesis, Megakaryocytosis and Increased Ring Sideroblasts.

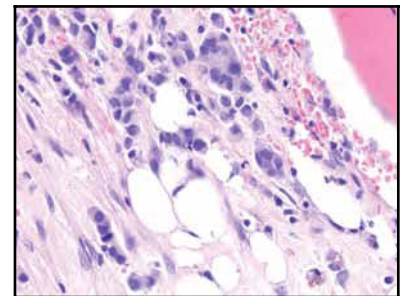
**FISH:**  
Abnormal clone with loss of MLL with probes specific for recurrent abnormalities in Myelodysplastic Syndrome (MDS).



Abnormal FISH for MLL, Consistent with del(11q)



Increased Ring Sideroblasts (Touch Preparation)



Infiltrating Carcinoma

Electronically signed  
10/31/2011 3:45 PM by  
**Doug Kingma, M.D.**  
Hematopathologist

Dr. Douglas W. Kingma, Laboratory Director

Howard L. Martin, III, M.D., Medical Director

CLIA #: 44D0915029, TN License #: 0000003284

IDC9 Codes: 285.9, 238.75

OncoMetrix

Poplar Healthcare, PLLC  
150 Collins Street, Memphis, TN 38812

(877) 670-HEME (4363)