

Patient Name:	Sample Patient	Ordering Physician:	Jane, Smith M.D.
D.O.B & Sex:	01/01/19xx (XXyrs.) - Male	Ordering Facility:	John Doe General Hospital
Collection Date:	12/12/2013	Account Number:	80000-00
Received Date:	12/23/2014	VantagePoint ID #:	200000
Report Date:	12/23/2014	VantagePoint Case #:	HZN14-000000
Specimen Type:	Bone Marrow	Medical Record #:	G000000/ 00-14-BM-000000

HORIZON COMPREHENSIVE REPORT

Clinical Data: 58 year old Male with Leukocytosis, splenomegaly. Rule out Lymphoma.

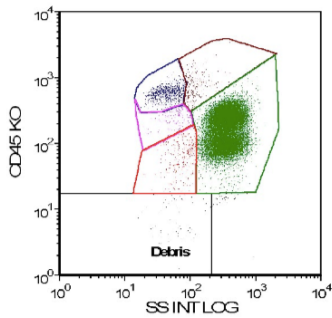


Figure 1 – CD45 VS SS

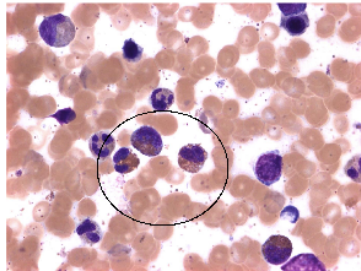


Figure 2 – Aspirate smear with increased mature eosinophils (circled).

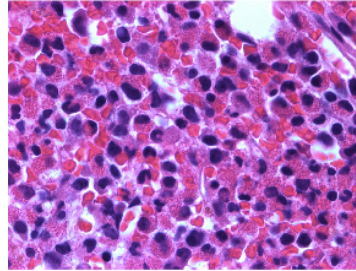


Figure 3 – Increased eosinophils on biopsy.

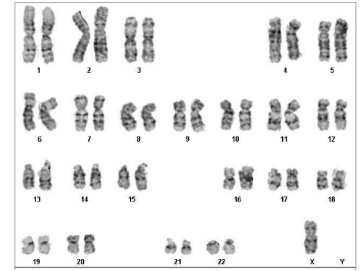


Figure 4 – Karyogram

FINAL DIAGNOSIS: Positive for Eosinophilic Myeloid Neoplasia with PDGFRA/CHIC-2 abnormality (A.K.A. chronic Eosinophilic Leukemia with PDGFRA/CHIC2 abnormality).

HORIZON ASSESSMENT:

FLOW CYTOMETRY: No abnormal cellular populations identified.

MORPHOLOGY:

- 1) Hypercellular bone marrow biopsy of 95% with increased number of eosinophils, predominantly myeloid hyperplasia with mature myeloid cells.
- 2) myeloid to erythroid ratio of 10 to 1.
- 3) 26% mature eosinophils detected.

FISH:

- 1) **POSITIVE** for PDGFRA/CHIC2 rearrangement. Consistent with a loss of CHIC2 in 183 (91.5%) of 200 cells.
- 2) Negative for PDGFRB rearrangement.
- 3) Negative for BCR/ABL rearrangement.

CYTOGENETICS: Cytogenetic analysis showed a male karyotype with loss of the Y chromosome in 19 of 20 metaphases. Loss of the Y chromosome is a frequent finding in older males, and is generally not considered clinically significant.

MOLECULAR STUDIES: Negative for JAK2 mutation by PCR studies.

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Electronically Signed by:

Anand Kunda
Hematopathologist