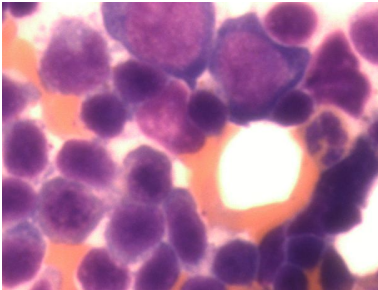


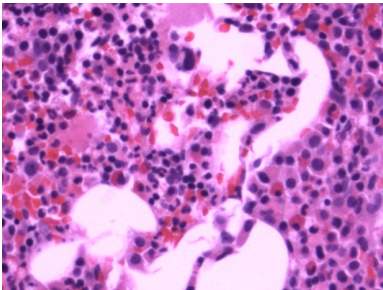
Patient Name: XXXXXX J ^ A J a a } c D.O.B. & Gender: 0F/01/1900 (00 yrs.) - 0^ { a^ Collection Date: 08/01/2014 Received Date: 08/01/2014 Report Date: 08/01/2014 Specimen Type: Bone Marrow Core, Bone Marrow Slides Specimen ID:	Ordering Physician: Ordering Facility: Referring Physician: Account Number: VantagePoint ID #: VantagePoint Case #: Medical Record #:
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Hematopathology Report

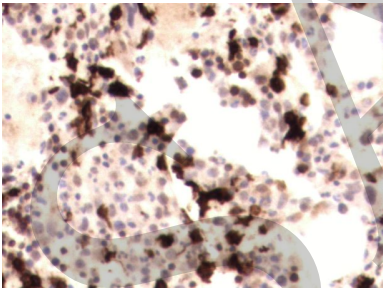
Clinical Data:
00 year old Male



Slight erythroid dysplasia. Also, lymphocytes are mostly small in size.



Increased marrow cellularity of 65%, with trilineal hyperplasia.



~10% CD8 positive T-cells/LGLs.

Final Diagnosis:

PERTINENT POSITIVE FINDINGS (PLEASE SEE COMMENT SECTION):

- 1) MILD ERYTHROID DYSPHOIESIS
- 2) HYPERCELLULAR MARROW OF 65% WITH TRILINEAL HYPERCELLULARITY
- 3) 10% CD8 POSITIVE T-CELLS CONFIRMED BY MORPHOLOGY - SCATTERED

OTHER MARROW FINDINGS:

- 1) ADEQUATE IRON STORES (NEGATIVE FOR RINGED SIDEROBLASTS)
- 2) NEGATIVE FOR INCREASE IN BLASTS.

Comments:

In regards to the macrocytic anemia, the bone marrow does show erythroid dysplasia and trilineal hypercellularity. These findings are suggestive of a low-grade myelodysplastic syndrome, if nutritional factors (B12/Folate) have been excluded.

In regards to the atypical T-cell large granular lymphocyte (LGL) population, detected by flow cytometry, there is an increase in LGLs by immunohistochemistry. However, these cells are scattered. Thus the findings are still inconclusive for a concurrent T-cell large granular lymphocytic leukemia. As mentioned in the flow cytometry report, World Health Organization classification requires the presence of persistent LGL lymphocytes for greater than 6 months for the definite diagnosis of T-cell large granular lymphocytic leukemia. Repeat peripheral blood flow cytometry in 6 months maybe helpful in further assessment, if clinically needed. T-cell gene re-arrangements will be reported separately.

Gross Description:

(Core-1) Received in formalin labeled with the patient's name, DOB and "bone marrow core" is one piece of dark brown porous tissue measuring 6 x 2 x 2 mm in greatest dimensions. The specimen is decalcified and entirely submitted in one cassette./RL

Microscopic Description:

One wright-giemsa peripheral smear: Red cells are borderline macrocytic. Rare Pelger Heut white cells seen. Platelets are normal in morphology.

Bone Marrow Aspirate:

Spicules: Present.

Megakaryocytes: Normal in morphology.

Patient Name: Úæ]|^Áúæ} c
D.O.B. & Gender: 0F/01/1966 (66 yrs.) - F
Collection Date: 08/01/2013
Received Date: 08/01/2013
Report Date: 08/01/2013
Specimen Type: Bone Marrow Core, Bone Marrow Slides
Specimen ID:

Ordering Physician:
Ordering Facility:
Referring Physician:
Account Number:
VantagePoint ID #:
VantagePoint Case #:
Medical Record #:

Hematopathology Report

Erythroid: Slight nuclear enlargement and left shift with mild erythroid dysplasia.
Granulocytes: Normal in morphology.
Lymphocytes: Sparse. Mostly small in size. A few lymphocytes have more cytoplasm.
Other: minute population of normal appearing plasma cells seen.

200-cell count differential is performed:
- 8% lymphocytes by morphologic count.

Bone Marrow Biopsy/Particle Sections:

Biopsy: Adequate.

Cellularity: 65%

M:E ratio: 1 to 1

Megakaryocytes: Mostly normal in morphology. Rare megakaryocytic cluster seen.

Erythroid: Increased in number. Slight nuclear enlargement seen.

Granulocytes: Slightly hyperplastic, but normal in morphology.

Lymphocytes: On H&E sections, lymphocytes appear small in size. Negative for large atypical lymphoid aggregates or paratrabecular lymphoid aggregates. One small, benign, age related lymphoid aggregate seen.

CPT Codes:

88305, 88311, 88313 x4, 85060, 85097, 88342 x5

IHC & Special Stains:

Special stains:

Iron Stained Aspirate Smear: Storage: Present. Iron uptake: Focal.

Ringed sideroblasts: Negative.

Iron stain of 1: Positive, Adequate amount.

PAS stain of 1: Appropriate staining present.

Reticulin stain of 1: Negative for reticulin fibrosis.

Immunohistochemical stains:

CD3: ~ 10% T-cells including large granular lymphocytes:

CD4: positive in majority of cells

CD8: 10-15% positivity

CD56: Negative.

CD57: Negative.

Electronically Signed by:

Anand Kunda

Hematopathologist/Pathologist