Report Date/Time : 20/03/2025 11:47:08 a

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Haematology & Coagulation

Name	: Mrs. Sultana Razia Akther
Age	: 52 Year(s) 5 Month(s) 19 Day(s)
Dept	: Haematology & Coagulation
Gender	: Female
Unit	: Haematology
Bed No	:
Refd. by	: Prof. Dr. Manzur Morshed MBBS, FCPS (Internal Medicine), MRCP (UK),Sr. Cosultant, Internal Medicine & Clinical Heamatology ,

Ref Type	: OPD
Specimen	: **Bone marrow aspirate + biopsy**
MR No	: D125-093139
HCN	: H125-009418

D125-093139 MR No *H125-009418* HCN Report ID *R125-078192*

Bone Marrow Report

Clinical information: A case of microcytic hypochromic anaemia refractory to oral & IV iron replacement, nonthalassaemic with mild splenomegaly. CBC on 18.03.2025: Hb-8.3 g/dl, MCV-74.1 fl, MCH-20.4 pg MCHC-27.6 g/dl, RDW-20.3%, WBC-3,500/cmm, N-57.5%, L-37.1%, M-3.1%, Eo-1.7%, Ba-0.3%, Immat. Gran.-0.3%, Platelets-131,000/cumm. Blood film shows hypochromic microcytic elliptocytes, pear shaped & few tear drop cells ..d a few large platelets.

Date Taken :18.03.2025 **Date Reported** :20.03.2025 **Site(s)** : Right posterior superior iliac spine.

Aspiration : Easy. **Consistency of Bone**: Normal. **Particles** : Visible, plenty.

Microscopic Examination:

Bone Marrow aspirate : Cellularity:- Markedly hypercellular. **Myeloid : Erythroid Ratio**: **1:1.**

Erythropoiesis : Markedly hyperactive with significant dyserythropoietic features, e.g. binuclearity, karyorrhexis, nuclear irregularity, internuclear & cytoplasmic bridging etc.**Granulopoiesis** : Active with maturation up to segmented forms. Occasional pseudo-Pelger neutrophils are seen. Blasts are not increased.**Megakaryocytes** : Moderately increased in number showing some dysmegakaryopoiesis, e.g. mononuclear / micromegakaryocytes and polyploid forms with separated nuclear segments. **Perls' stain (for iron):** Marrow macrophage iron is increased but sideroblasts are not seen.

Lymphocytes: Normal. **Plasma cells :** Normal. **Macrophages** : Mildly increased.

Trephine Biopsy : H&E stained sections of 2.0 cm core of cancellous bone reveal normal bone trabeculae with intervening marrow showing 70% overall cellularity. The marrow shows trilineage cell population with maturation including prominence of erythroid component. Megakaryocytes are moderately increased in number with both hypolobulated (mono- or bincleate) and polyploid forms with separated nuclear segments. Probable diffuse fibrosis is present evidenced by 'streaming' of marrow cells. No evidence of malignancy is seen. .

Conclusion : Suggestive of MDS (Myelodysplastic syndrome) with multilineage dysplasia. Considering the findings of hypochromic microcytosis in this case but absence of iron deficiency with previous normal haemoglobin electrophoresis, possibility of concomitant acquired Hb H disease was suspected and confirmed by a recent Hb-electrophoresis (on 19.03.2025).

Electronic Signature
Dr. Shariful Islam
Sr. Clinical Staff
20/03/2025 11:45:57 am

Electronic Signature
Prof. Dr. Md. Sirazul Islam
Senior Consultant
20/03/2025 11:47:08 am