UNIVERSITY OF GHANA

SCHOOL OF BIOMEDICAL AND ALLIED HEALTH SCIENCES

DEPARTMENT OF HAEMATOLOGY

**BONE MARROW ASPIRATE REPORT**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Patient Name**: Solomon Quartey | | | **Age:** 51years | | | **Sex**: Male | |
| **Hospital/Ward**: PS3 | | | **Requsting Physician:** Dr Dzormeku | | | | |
| **Hospital/Folder**: Not stated | | | **Date taken:** 23/01/2024 | | | **Lab No**: | |
| **Clinical Details**:  Burkitts lymphoma. Generalized lymphadenopathy and extranodal swelling. Awaiting IHC. Viral screen – negative. Hepatomegaly+, ? Bone marrow involvement | | | | | | | |
| **Hb**: g/dL  **WBC**: x 109/L  **Plat** x 109/L | **MCH**: pg  **MCHC**: g/dL  **MCV**: fL | **RBC:** normochromic cells, anisochromasia  **WBC:** adequate. No BURKITT cells seen  **Plat:** adequate | | | | | |
| **Performed By**: Dr Dzormeku | | | | | **Ease of Aspiration**: Easy | |
| **Aspiration Site:**  Not stated | | | | | **Bone Consistency**: Normal | |
| **Cellularity**: hypercellular granules + trails | | | | | **M:E Ratio : 5:1** | |
| **Erythropoiesis**: normoblastic maturation | | | | | | | |
| **Granulopoiesis**: increased + sequential maturation | | | | | | | |
| **Megakaryocytes**: adequate + active | | | | | | | |
| **Lymphocytes**: 10% of nucleated cells. No BURKITT cells seen. | | | | | | | |
| **Plasma Cells:** 2% of nucleated cells | | | | | | | |
| **Macrophages**: Present | | | | | | | |
| **Other Cells:** | | | | | | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Myeloblasts** % | **Promyelocytes** | **Myelo/Meta** 12% | **Neutrophils/bands**  60% | **Erythroid** 14% | | **Lymphoid blasts** | **Lymphocytes** 10% | **Plasma cells** 2% | **Basophils** | **Eosinophils** 2% | | **Monoblasts** | **Monocytes** | **Other Cells:** | | **Cells Counted** | | | | | | | | |
| **Storage Iron**: Not done | | | | **Siderotic Granules**: | | | |
| **Cytochemistry**: | | | | **Other tests to follow:** | | | |
| **Conclusion: Reactive Marrow . No Burkitt cells seen.** | | | | | | | |
| **Disease Code: -**  **Reported/Authorised By :** Dr FIAWOO  **Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:** 29/01/24 | | | | | | | |

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**BONE MARROW ASPIRATE REPORT**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Patient Name**: James Amartey | | | **Age:** 41years | | | **Sex**: Male | |
| **Hospital/Ward**: Haem | | | **Requsting Physician:** Dr Lokko | | | | |
| **Hospital/Folder**: Not stated | | | **Date taken:** 25/01/2024 | | | **Lab No**: | |
| **Clinical Details**:  Anaemia with increasing WBC. Pathologic fracture of left arm. Spleen -17cm. BCR-ABL – Negative. Blood film comment – MPN cannot be ruled out. ? chronic neutrophilic leukaemia. | | | | | | | |
| **Hb**: g/dL  **WBC**: x 109/L  **Plat** x 109/L | **MCH**: pg  **MCHC**: g/dL  **MCV**: fL | **Blood Film Comment:** hypochromasia,polychromasia  **RBC:**  anisocytosis,target cells++, rouleaux++, agglunation+  **WBC:** marked neutrophilia  **Plat:** reduced. No clumps | | | | | |
| **Performed By**: Dr Ansah-Otu | | | | | **Ease of Aspiration**: Easy | |
| **Aspiration Site:**  Not stated | | | | | **Bone Consistency**: soft | |
| **Cellularity**: hypercellular granules + mildly haemodiluted trial | | | | | **M:E Ratio :** | |
| **Erythropoiesis**: depressed | | | | | | | |
| **Granulopoiesis**: increased , 97% neutrophils | | | | | | | |
| **Megakaryocytes**: reduced | | | | | | | |
| **Lymphocytes**: depressed | | | | | | | |
| **Plasma Cells:** <1% of nucleated cells | | | | | | | |
| **Macrophages**: | | | | | | | |
| **Other Cells:** | | | | | | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Myeloblasts** % | **Promyelocytes** | **Myelo/Meta** 1% | **Neutrophils/bands**  97% | **Erythroid** 2% | | **Lymphoid blasts** | **Lymphocytes** % | **Plasma cells** % | **Basophils** | **Eosinophils** % | | **Monoblasts** | **Monocytes** | **Other Cells:** | | **Cells Counted** | | | | | | | | |
| **Storage Iron**:unsuitable for comment | | | | **Siderotic Granules**: | | | |
| **Cytochemistry**: | | | | **Other tests to follow:** | | | |
| **Conclusion: ? Chronic Neutrophilic Leukaemia; Exclude Plasma Cell Dyscrasia O/A rouleaux.**  **Suggest : 1. FISH to exclude Ph Chromosome**  **2. SPEP,SFLC to exclude underlying myeloma** | | | | | | | |
| **Disease Code: -**  **Reported/Authorised By :** DR. FIAWOO  **Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:** 26/01/24 | | | | | | | |

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**BONE MARROW ASPIRATE REPORT**

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Patient Name**: Humphrey Mensah | | | **Age:** 17 years | | | **Sex**: Male | |
| **Hospital/Ward**: KBTH | | | **Requsting Physician:** Dr Tandoh | | | | |
| **Hospital/Folder**: Not stated | | | **Date taken:** 09/02/2024 | | | **Lab No**: | |
| **Clinical Details**: Pancytopenia with generalized lymphadenopathy | | | | | | | |
| **Hb**: g/dL  **WBC**: x 109/L  **Plat** x 109/L | **MCH**: pg  **MCHC**: g/dL  **MCV**: fL | **RBC:** normocytic normochromic  **WBC:** reduced. few large immature lymphoid cells seen  **Plat:** reduced. no clumps | | | | | |
| **Performed By**: Dr Ameyaw | | | | | **Ease of Aspiration**: Easy | |
| **Aspiration Site:**  Right posterior superior iliac spine | | | | | **Bone Consistency**: Normal | |
| **Cellularity**: Hypercellular granules + trails | | | | | **M:E Ratio :** | |
| **Erythropoiesis**: Depressed | | | | | | | |
| **Granulopoiesis**: Depressed | | | | | | | |
| **Megakaryocytes**: Depressed | | | | | | | |
| **Lymphocytes**: Markedly increased. Homogenous population of small to medium sized immature  cells with a high nuclear to cytoplasmic ratio, indiscernible nucleoli and scanty agranular cytoplasm | | | | | | | |
| **Plasma Cells:** < 1% of nucleated cells | | | | | | | |
| **Macrophages**: Present | | | | | | | |
| **Other Cells:** | | | | | | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Myeloblasts** | **Promyelocytes** | **Myelo/Meta** | **Neutrophils/bands** | **Erythroid** 4% | | **Lymphoid blasts 96%** | **Lymphocytes** | **Plasma cells** | **Basophils** | **Eosinophils** | | **Monoblasts** | **Monocytes** | **Other Cells:** | | **Cells Counted** | | | | | | | | |
| **Storage Iron**: Not done | | | | **Siderotic Granules**: | | | |
| **Cytochemistry**: | | | | **Other tests to follow:** | | | |
| **Conclusion: Acute lymphoblastic leukemia (FAB: L1)** | | | | | | | |
| **Disease Code: -**  **Reported/Authorised By :** Dr Ameyaw/Ghunney  **Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:** 12/02/24 | | | | | | | |

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**BONE MARROW ASPIRATE REPORT**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Patient Name**: Eshun Jessica | | | **Age: 15** | | | **Sex**: F | |
| **Hospital/Ward**: KBTH | | | **Requsting Physician:** Dr. Boateng | | | | |
| **Hospital/Folder**: | | | **Date taken:** | | | **Lab No**: | |
| **Clinical Details**: ALL. Post Induction | | | | | | | |
| **Hb**:  **WBC**:  **Plat** | **MCH**:  **MCHC**:  **MCV**: | **RBC:** Anisocytosis. Hypochromasia++  **WBC:** Adequate. Normal Morphology  **Plat:** Adequate | | | | | |
| **Performed By**: Dr. Salley | | | | | **Ease of Aspiration**: | |
| **Aspiration Site:** | | | | | **Bone Consistency**: | |
| **Cellularity**: Hypocellular granules and trails | | | | | **M:E Ratio :** | |
| **Erythropoiesis**: Active and normoblastic | | | | | | | |
| **Granulopoiesis**: Active with sequential maturation | | | | | | | |
| **Megakaryocytes**: Increased and active | | | | | | | |
| **Lymphocytes**: Normal morphology | | | | | | | |
| **Plasma Cells:** 1% of nucleated cells | | | | | | | |
| **Macrophages**: Present | | | | | | | |
| **Other Cells:** Many bare cells seen on film (2/HPF) | | | | | | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Myeloblasts** | **Promyelocytes** | **Myelo/Meta** 14% | **Neutrophils/bands**  17% | **Erythroid** 65% | | **Lymphoid blasts** 2**%** | **Lymphocytes** 1% | **Plasma cells**  1% | **Basophils** | **Eosinophils** | | **Monoblasts** | **Monocytes** | **Other Cells:** | | **Cells Counted** | | | | | | | | |
| **Storage Iron**: N/A | | | | **Siderotic Granules**: | | | |
| **Cytochemistry**: N/A | | | | **Other tests to follow:** | | | |
| **Conclusion:**  1. ALL - morphological remission  2. Exclude iron deficiency anaemia  3. ? Significance of bare cells | | | | | | | |
| **Disease Code: -**  **Reported/Authorised By :** Dr. Ameyaw/Lokko-Hanson  **Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:** 16/02/2024 | | | | | | | |

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DEPARTMENT OF HAEMATOLOGY

**BONE MARROW ASPIRATE REPORT**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Patient Name**: Asimanyi Aseye | | | **Age:** 2 | | | **Sex**: F | |
| **Hospital/Ward**: KBTH | | | **Requsting Physician:** | | | | |
| **Hospital/Folder**: | | | **Date taken:** | | | **Lab No**: | |
| **Clinical Details**: Pancytopenia + Splenomegaly + Syndromic features | | | | | | | |
| **Hb**:  **WBC**:  **Plat** | **MCH**:  **MCHC**:  **MCV**: | **RBC:**  Anisocytosis. Hypochromasia+ Polychromasia+ Normoblasts+  **WBC:**  Adequate. Present are large immature cells with a high N:C ratio; abundant, moderately basophilic granular cytoplasm and multiple nucleoli. Occasional Auer rods observed.  **Plat:** Adequate. Anisocytosis. Giant platelet forms present. | | | | | |
| **Performed By**: Dr. Salley | | | | | **Ease of Aspiration**: | |
| **Aspiration Site:** | | | | | **Bone Consistency**: | |
| **Cellularity**: Agranular with hemodiluted trails | | | | | **M:E Ratio :** | |
| **Erythropoiesis**: | | | | | | | |
| **Granulopoiesis**: | | | | | | | |
| **Megakaryocytes**: | | | | | | | |
| **Lymphocytes**: | | | | | | | |
| **Plasma Cells:** | | | | | | | |
| **Macrophages**: | | | | | | | |
| **Other Cells:** | | | | | | | |
| **Storage Iron**: N/A | | | | **Siderotic Granules**: | | | |
| **Cytochemistry**: N/A | | | | **Other tests to follow:** | | | |
| **Conclusion: ? Transient abnormal myelopoiesis associated with Down’s Syndrome**  **AML cannot be ruled out**  **Suggest: Karyotype**  **Flow cytometry** | | | | | | | |
| **Disease Code: -**  **Reported/Authorised By : Dr. Ameyaw/Prof. Olayemi**  **Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date 20/2/24** | | | | | | | |

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DEPARTMENT OF HAEMATOLOGY

**BONE MARROW ASPIRATE REPORT**

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Patient Name**: | | | **Age:** | | | **Sex**: | |
| **Hospital/Ward**: KBTH | | | **Requsting Physician:** | | | | |
| **Hospital/Folder**: | | | **Date taken:** | | | **Lab No**: | |
| **Clinical Details**: | | | | | | | |
| **Hb**:  **WBC**:  **Plat** | **MCH**:  **MCHC**:  **MCV**: | **RBC:**  **WBC:**  **Plat:** | | | | | |
| **Performed By**: | | | | | **Ease of Aspiration**: | |
| **Aspiration Site:** | | | | | **Bone Consistency**: | |
| **Cellularity**: | | | | | **M:E Ratio :** | |
| **Erythropoiesis**: | | | | | | | |
| **Granulopoiesis**: | | | | | | | |
| **Megakaryocytes**: | | | | | | | |
| **Lymphocytes**: | | | | | | | |
| **Plasma Cells:** | | | | | | | |
| **Macrophages**: | | | | | | | |
| **Other Cells:** | | | | | | | |
| |  |  |  |  |  | | --- | --- | --- | --- | --- | | **Myeloblasts** | **Promyelocytes** | **Myelo/Meta** | **Neutrophils/bands** | **Erythroid** 4% | | **Lymphoid blasts 96%** | **Lymphocytes** | **Plasma cells** | **Basophils** | **Eosinophils** | | **Monoblasts** | **Monocytes** | **Other Cells:** | | **Cells Counted** | | | | | | | | |
| **Storage Iron**: | | | | **Siderotic Granules**: | | | |
| **Cytochemistry**: | | | | **Other tests to follow:** | | | |
| **Conclusion:** | | | | | | | |
| **Disease Code: -**  **Reported/Authorised By :**  **Signature:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date:** | | | | | | | |