Original Research Paper



General Surgery

A CASE OF ISOLATED SUBCUTANEOUS ABSCESS LEADS TO THE DIAGNOSIS OF CHRONIC LYMPHOCYTIC LEUKEMIA

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ABSTRACT Chronic lymphocytic leukemia is monoclonal disorder characterized by progressive accumulation of incompetent lymphocytes.patients with CLL have defect both in humoral and cell mediated immune response as result of their underlying malignancy.hence these patients prone for both localized and systemic infections frequently. Hence it is important for clinician to recognize the systemic cause of skin and subcutaneous related infections for early diagnosis and treatment.

KEYWORDS: Abscess – CLL –lymphocytosis- Neutropenia - Bone marrow aspiration.

Case Presentation

a 84 year old gentleman presented to the OPD with complaints of pain and swelling over left lowerlimb involving lateral aspect of lower thigh and knee joint for past one week. He has no history of diabetes, hytertension and not on any other drugs. He depicts the past history of pulmanory TB being diagnosed, for which he completed his ATT 6 months back. Upon examination, he was concious ,oriented, slightly febrile, not anemic, not icteric, no generalised lynphadenopathy.He had tachycardia and his BP was within normal limits. Cardiovascular, respiartory, GI systems were normal.blood investigation done, revealed blood sugar, renal parameters, liver function tests all found to be normal. His complete blood count profile found to be abnormal, total count was elevated -46,500,hb- 13.7, platelet-90,000. As patient was found to be toxic, initial incision and drainage was done to relieve his pain and to alleviate his toxicity.CBC repeated on same day revealed[TC-51,000 (leukocytosis), neutropenia – 16 %, with lymphocytosis -80%], platelets -87000, rbc-5.19 lakhs/cu.mm. He was admitted ,and started empirically on inj. piperecillin tazobactum 4.5 gm iv tds dosage. peripheral smear was done on the patient it shows, RBC-appears normocytic and normochromic, WBC-differential count shows increase in mature lymphocytes, atypical lymphocytes and smugde cells. platelets were reduced in number and clumps.pictures suggestive of chronic lymphoproliferative disorder. he was further proceeded with bone marrow aspiration cytology after getting consent. erythroid series shows 37 % normoblastic maturation, myeloid series have normal maturation up to neutrophills, megakaryocytic series absent. Differential count- [lymphocytes -33,blast-1, promyelocyte-3,myelocyte-7, metamyelocyte-1, band forms-4,,neutrophils-11,eosinophils-2, plasma cells-1].He was staged, by RAI stage IV,as high risk category. by binet's staging he is categorised as stage C .His abscess started resolving day by day .Its well healed with granulation tissue.

Abscess Over The LOWERLIMB, incision And Drainage Done. wound Healed With Granulation Tissue

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Bone Marrow Aspiration Cytology Revealed Chronic Lymphoproliferative Disorder

DISCUSSION:

Chronic lymphocytic leukemia is characterized by clonal expansion of CD5, CD23 b cell in blood ,bonemarrow and second lymphoid tissues. Accumulation and slow proliferation of maturely appearing but functionally incompetent leukocytes leads to hypogamma globulinemia [igG,igA,igM]. reduced igG leads to respiratory infections.impaired natural killer cells, neutrophills, monocytes and macrophages makes the host susceptiple to localised and systemic bacterial,fungal and viral infections. most commonly skin and soft tissue infections being caused by streptococci,staphylococci and other gram negatives.

CONCLUSION:

The most common cause for subcutaneous abscess are due to chronic ailmemts like diabetes, chronic kidney and liver disease, primary, secondary immunocompramised status and due to localized causes. if we analyse the root cause of every abscess we may clinch the rare systemic causes like leukemias. hence proper evaluation may help the patients to get treated for their underlying major systemic illness.