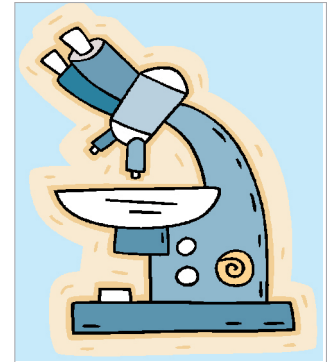




Thrombocytosis

Thrombocytosis is an elevated platelet count. Platelets are microscopic particles in the blood that are necessary for normal blood clotting. A normal platelet count is 150,000-450,000/mm³. They are produced in the bone marrow.

Essential thrombocytosis (ET, aka, thrombocythemia) is overproduction of platelets by the bone marrow in the absence of another identifiable cause. Reactive thrombocytosis and other primary hematological disorders must be ruled out before the diagnosis is made because elevated platelet counts can be a sign of serious underlying illness such as polycythemia vera, myelofibrosis, myelodysplasia, leukemia, other malignancies, and bone marrow diseases. Platelets counts can be expected to rise with acute hemorrhage and after the spleen has been removed.



ET is usually asymptomatic, even when platelets counts are very high (>1 million), but on occasion, it is associated with a thromboembolic event (*such as clots, MI, TIA/stroke*) or abnormal bleeding. Lesser problems include migraines, erythromelalgia (pain and redness), burning sensation, and acrocyanosis.

Appropriate work-up includes bone marrow biopsy and aspiration, iron studies, leukocyte alkaline phosphatase, and molecular studies for BCR-ABL.

Treatment with aspirin is common, especially to relieve symptoms of erythromelalgia and burning sensation, but it can increase the risk of hemorrhage. Severe cases require other treatment choices as hydroxyurea, interferon alpha and others.

Platelet counts can rise in reaction to some other conditions (*as stated above*). Their risk must be assessed in the context of the underlying condition.

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Ratings for Liver Test

Underwriting Considerations

- ▶ For essential thrombocytosis (*aka thrombocythemia*), the applicant must have had an evaluation by a hematologist to definitively make the diagnosis and to rule out other hematological disorders such as burgeoning leukemia. If applicant has not seen a hematologist, the case will be postponed for a minimum of three years since the first appearance of a high platelet count (>500,000).
- ▶ The rest of the CBC should be within normal limits to be considered.
- ▶ When thrombocytosis appears in combinations with other disorders prone to clotting or hemorrhagic events (*such as carotid disease, coronary artery disease, atrial fibrillation*), the case will generally be declined).
- ▶ A rising platelet count implies an unfavorable prognosis and is generally postponed.
- ▶ If essential thrombocytosis, and no physician consulted within 5 years, the case will be postponed for current evaluation.

If an adult, and it's unknown if disease is essential or reactive, it will be underwritten as essential.

| Essential thrombocytosis | |
|---|---|
| Never needed treatment other than aspirin, no history of hemorrhagic or clotting events, using highest known value within past 3yr | |
| <650,000 | Table B |
| 650,000-1million | Table C |
| >1.0 million | Decline |
| Treatment (past or present) with anagrilide or hydroxyurea, with or without single hemorrhagic or clotting event, using highest known value since stabilized on medication. Note: for multiple events, individual consideration. | |
| <650,000 | Postpone one yr after any hemorrhagic or clotting event or medication change, then Table D. |
| Others | Decline |
| Treatment (past or present) with 32P or alkylating agents | Decline |

| Reactive thrombocytosis or unexplained thrombocytosis | |
|--|--------------------------|
| Never needed treatment other than aspirin, no history of hemorrhagic or clotting events, asymptomatic, using highest known value | |
| <500,000 | Rate for cause. |
| Others | Individual consideration |

To get an idea of how a client with a history of Thrombocytosis would be viewed in the underwriting process, feel free to use the Ask "Rx" pert underwriter for an informal quote.

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Trombocytosis - Ask "Rx" pert underwriter (ask our experts)

Producer _____ Phone _____ Fax _____

Client _____ Age/DOB _____ Sex _____

If your client has a history of Thrombocytosis, please answer the following:

1. When was Thrombocytosis diagnosed: _____

2. What were the bone marrow results? _____

3. How is it being treated? _____

4. Date and results of the most recent CBC:

Hemoglobin (Hb) _____

Hematocrit (Hct) _____

White blood count (WBC) _____

Platelet count (plct) _____

5. What other medical conditions does the client have? _____

6. List all medications: _____

7. Does the client smoke?

yes

no

After reading the Rx for Success on bilirubin & alkaline phosphatase, please feel free to use this Ask "Rx" pert underwriter for an informal quote.

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