

Pathology Newsletter May 2022

A Clinical Approach to Thrombocytopaenia

Pathology

Laboratories

Excellence · Integrity · Quality

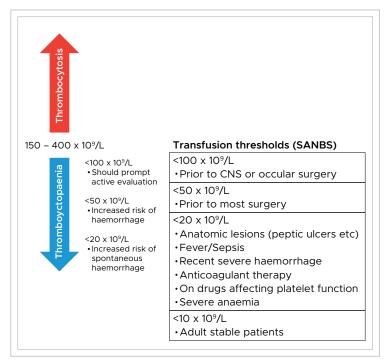
by Dr. Adele Visser

What is thrombocytopaenia?

Thrombocytopaenia is defined as a reduced platelet count where in most instances the lower threshold is considered to be 150×109 per litre in adult patients.

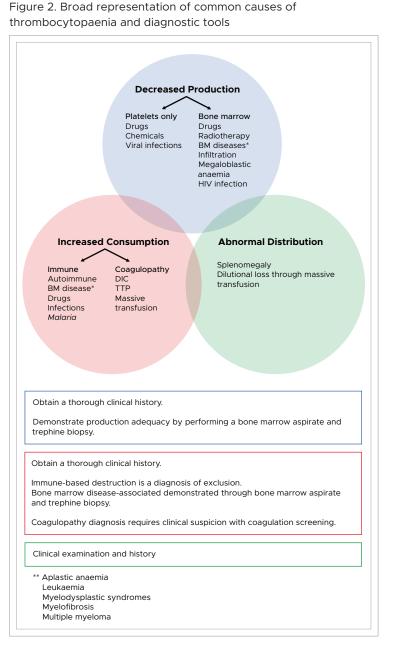
The clinical relevance of various levels of thrombocytopaenia differ (Figure 1).

Figure 1. Clinical definition and relevance of thrombocytopaenia.



What are the causes of thrombocytopaenia?

Various clinical factors will need to be considered in the work-up of a patient presenting with thrombocytopaenia, including factors like pregnancy-state, medication use and prior medical history (figure 2).





What should I consider upon finding my patient to have a thrombocytopaenia?

The first question should be whether the level of thrombocytopaenia justifies transfusion. The SANBS guidelines should be utilized in this regard as platelet transfusions are both costly and a very limited resource.

The second issue should be to determine the underlying cause.

Typically, a clinical history and clinical examination will allude to the obvious causes, however, should this approach not yield a diagnosis, a purely pragmatic approach of demonstrating sufficient or insufficient production should be followed (this is attained through performing a bone marrow aspirate with trephine biopsy).

Of note, the diagnosis of immune-mediated platelet destruction (Also referred to as Ideopathic Thrombocytopaenic Purpura - ITP) is a diagnosis of exclusion.

References

- 1. Clinical Guidelines for the Use of Blood Products in South Africa SANBS
- 2. Essential Haematology 5th Edition, Hoffbrand AV, Moss PAH and Pettit JE.

JDJ Pathology Laboratories

Suite LG 2, Musgrave Park, 18 Musgrave Road Durban, 4001

☎ 031 201 4647
∞ 067 826 7473
☞ 031 201 4910

☑ clientservices@jdjd.co.za
 ☑ accounts@jdjd.co.za
 ⊕ www.jdjd.co.za

Follow Us

FacebookInstagramLinkedIn





Pathology Laboratories

Excellence • Integrity • Quality