

Platelet Guidelines - Adults

Clinical practice guidelines and recommendations are not considered to be standards or absolute requirements. They do not apply to all individual transfusion decisions. Clinical judgment is critical in the decision to transfuse; therefore, platelet transfusion above or below the specified platelet count threshold may be dictated by the clinical context

THERAPEUTIC Platelet Transfusion Guidelines - Adults	
Platelet Count	
$\leq 50 \times 10^9/L$	Active bleeding
$\leq 100 \times 10^9/L$	CNS/spinal trauma or surgery ECMO patients (> 13 kg)
PROPHYLACTIC Platelet Transfusion Guidelines - Adults	
$\leq 10 \times 10^9/L$	Hemorrhage prophylaxis for inpatients
$\leq 20 \times 10^9/L$	Outpatients
$\leq 50 \times 10^9/L$	Invasive procedure with a high risk for bleeding or life threatening hemorrhage Non-neuraxial surgery Neuraxial anesthesia Lumbar puncture
$\leq 100 \times 10^9/L$	Ocular Surgery

PLATELET DYSFUNCTION

When patients have petechiae, purpura, bleeding, invasive or surgical procedure

Documented abnormal platelet function tests (as evidenced by PFA-100, Platelet Aggregation, ROTEM/TEG or VerifyNow results)

Recent administration of anti-platelet agent (aspirin, clopidogrel, etc).

Post-Cardiopulmonary Bypass with perioperative bleeding

Contraindications in Patients with	Thrombotic Thrombocytopenic Purpura (TTP) Post-Transfusion Purpura (PTP) Heparin Induced Thrombocytopenia (HIT)
Relative Contraindications* in Patients with	Idiopathic Thrombocytopenic Purpura (ITP) Hemolytic Uremic Syndrome (HUS)

*Recommend consulting with a Transfusion Medicine physician

May 2015

References

1. Kaufman Richard et al. Platelet Transfusion: A Clinical Practice Guideline from the AABB. *Ann Intern Med.* 2015;162(3):205-213.
2. Slichter SJ. Platelet Transfusion Therapy *Hematol Oncol Clin N Am* 21 (2007) 697–729
3. Stanworth SJ, et al. A No-Prophylaxis Platelet-Transfusion Strategy for Hematologic Cancers, *NEJM* May 2013; vol. 368 no. 19
4. Goel R et al. Platelet transfusions in platelet consumptive disorders are associated with arterial thrombosis and in-hospital mortality. *Blood*-2014-10-605493. [Epub ahead of print]
5. Circular of Information for the Use of Human Blood and Blood Components, FDA, current edition