

eP053 :Audit of single donor platelet in a tertiary care center in South India

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Introduction

- Transfusion of components derived from human blood underpins modern medicine. Blood component therapy has benefited many patients by meeting their specific transfusion needs from a single blood donation.
- However, despite having various guidelines for platelet transfusion therapy both internationally and nationally, noncompliance to these are frequently seen.
- This inappropriate use occurs as the level of awareness among clinicians varies significantly.
- Unnecessary allogeneic component exposure poses threat to transfusion transmitted infections (TTI), alloimmunization and platelet refractoriness.
- Also ignorance regarding platelet handling, storage, transfusions across ABO and Rh (D) barrier and transfusion triggers has led to wastage of this blood component.

Objectives

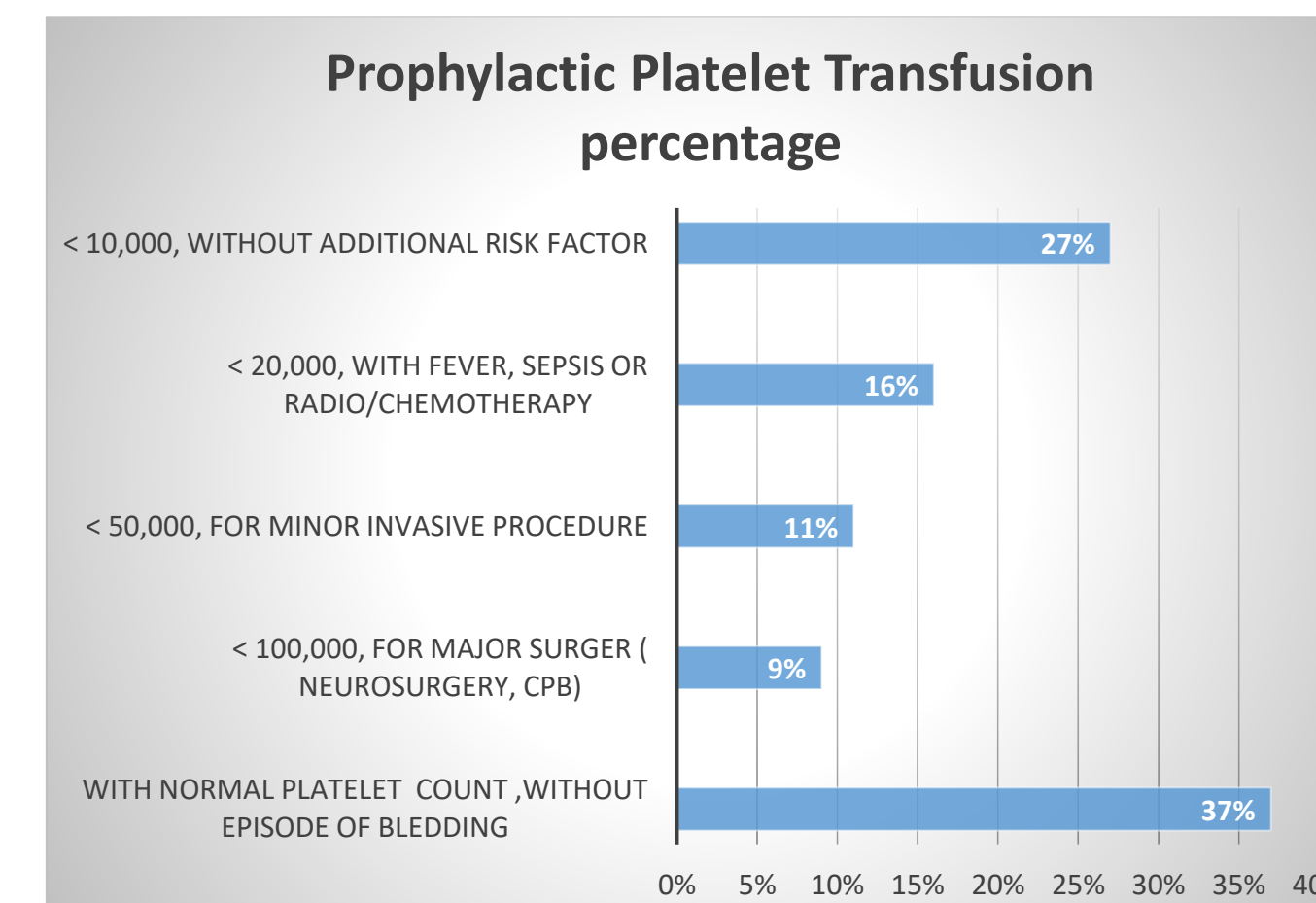
- To assess its preparation, appropriate utilization, and wastage at our Institute

Material & Method

- A six-month retrospective platelet audit was carried out from March to August 2024 in the Department of Transfusion Medicine, at the Institute, which is a tertiary care 250 bedded hospital running various specialties and super-specialties.
- The data for monthly preparation of SDP & Discard data was obtained from departmental records.
- Patient's information regarding their age, gender, specialty, platelet counts, transfusion episodes, therapeutic or prophylactic transfusion and ABO and Rh (D) group specific or non-group specific was obtained from requisition forms and platelet issue record registers

Result

- During 6-month study period, 355 units of SDP were prepared & transfused to 353 patients.
- Adult Critical care unit patient (CCM) & High dependency unit (HDU) were the main user utilizing 39.1 and 78.4 % of SDPs prepared.
- 85 units of (24 %) SDPs transfusions were of group specific platelets only.
- 223 units (63%) of prophylactic platelet transfusions were appropriate as per the recommended BCSH guidelines.



- However, 130 units (37%)of the prophylactic platelets were transfused inappropriately with normal platelet counts and no evidence of bleeding related to platelets.

Conclusion

- **Regular audit** of blood and blood components is a must so that necessary remedial measures can be taken to maximize appropriate and judicious utilization of each component.

Reference

1. British Committee for Standards in Haematology, Blood Transfusion Task Force. Guidelines for the use of platelet transfusions. Br J Haematol 2003;122:10-23.
2. American Association of Blood Banks. Blood Transfusion Therapy: A physician's handbook. 7th ed. American Association of Blood Banks: Bethesda MD; 2002
3. The Australian National Health and Medical Research Council and Australian Society of Blood Transfusion. Clinical Practice Guidelines: Appropriate Use of Red Blood Cells, Fresh Frozen Plasma, Platelets: 2001.