



Return Of Unused Blood Components With Its Impact On Inventory Management A Retrospective Study

Dr.Gaurav Kumar, Dr.Seema Gupta, Dr.Prasad Kulkarni

Department Of Transfusion Medicine, Dr.D.Y.Patil Hospital Navi Mumbai, Nerul

eP111

BACKGROUND

- A single unit wasted is loss of resources as well as possibility of unavailability of blood component in case of emergency and rare blood group patient
- In a blood center, wastage of units is of major concern and considered as quality indicator with its benchmark of less than 1%
- So there is a definite need for analyzing reasons, with the possibility of salvaging received units & re-issuing the same to other patients

AIMS & OBJECTIVES

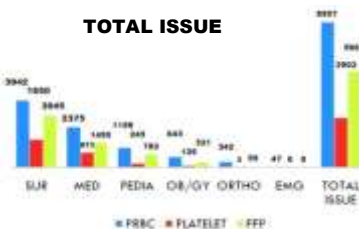
- To analyze number and its reason for return of unused blood component units
- To assess its impact on blood inventory.
- To prepare protocol guidelines for its prevention.
- To estimate financial implication of unused blood component units.

MATERIALS & METHODS

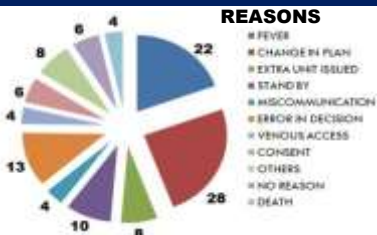
- Analyzed the returned blood component units received in Transfusion Medicine department over a period of 18 months from January 2022- June 2023
- Return form properly filled or not & reason of return.
- Duration of blood component issue & return, viability of the product & possibility of reissue

RESULTS

TOTAL ISSUE



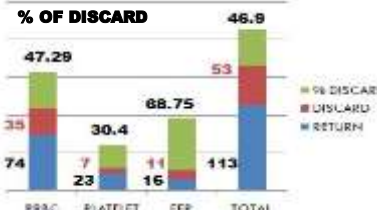
REASONS



Department Wise Returned Units

	PRBC	Platelets	FFP	Total
Surgery	28	10	0	38
ICU	18	7	8	35
Medicine	8	5	4	17
Pediatrics	5	1	1	7
Orthopedics	5	0	2	7
OB/GYN	7	0	0	7
Casualty	2	0	0	2

% OF DISCARD



CONCLUSIONS

- Pre transfusion workup as well as consent should be taken prior to transfusion including CBC parameters
- Should be alert about transfusion triggers and BTS & patient care staff
- Communication among OT staff and proper coordination with BTS to avoid untimely issue of blood products
- Meticulous inventory management and communication can minimize surplus wastage
- Implementing stringent protocols, enhanced communication channels could reduce wastage
- Collaboration between BTS and clinical units is pivotal to optimize usage and reduce unnecessary disposal
- Reissue products that meet return policy criteria
- Financial loss can be minimized with collective efforts from hospital staff managing patients & BTS
- Percentage of unused bags is less compared to discard, it is very crucial when it comes to rare blood group

REFERENCES

- Cohn, C.S., 2020. Technical Manual. 20th Edn., ISBN-14:978-1563953705, Pages: 816.
- Morish, M., et al., 2012 Kuala Lumpur. Asian J. Transfus. Sci., 6: 19-23.
- Hassan, M.N., et al., 2023 North Eastern Malaysia. Asian J. Med. Biomed., 7: 88-94