

A universal framework addresses blood shortages, focusing on A positive and rare negative groups, while reviewing adverse transfusion reactions

Patel K¹, Mistry P, Mehta V, Italia Y
 Valsad Raktdan Kendra, Valsad Gujarat, India



Background

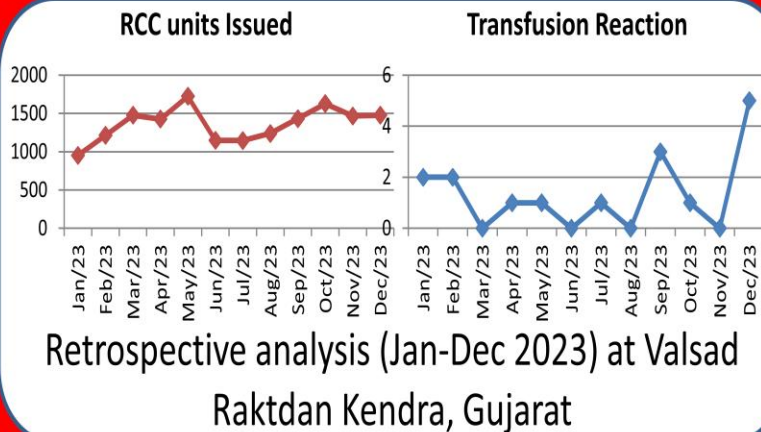
WHICH BLOOD TYPES AM I COMPATIBLE WITH?

BLOOD TYPE	CAN GIVE TO	CAN RECEIVE FROM
A+	A+, AB+	A+, A-, O+, O-
O+	O+, A+, B+, AB+	O+, O-
B+	B+, AB+	B+, B-, O+, O-
AB+	AB+	EVERYONE
A-	A+, A-, AB+, AB-	A-, O-
O-	EVERYONE	O-
B-	B+, B-, AB+, AB-	B-, O-
AB-	AB+, AB-	AB-, A-, B-, O-

Objectives

Evaluate universal blood transfusion strategy implementation

Methodology

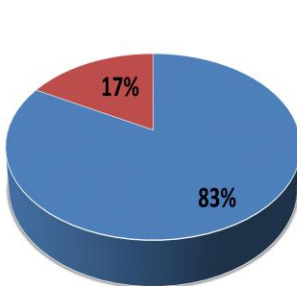


Safety Measures/Transfusion Reactions

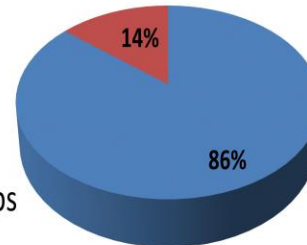


Out of total 16 reactions observed from Jan-Dec 2023, only 2 involved alternative blood types (one allergic, one FNHTR).

Results



➤ 5115 A-positive requests received, 891 filled by alternatives (A-, O+, O-)



➤ 1561 AB-positive requests received, 225 filled by alternatives (AB-, B+, etc.)

Conclusion

Effective shortage mitigation for critical blood groups, enhanced safety.

Reference: DGHS or WHO Transfusion Medicine Technical Manual 3rd edition November 2023