

### Project 'Life'

A Temple of Humanitarian Services  
Since - 1978



### Life Blood Centre

A Centre for Excellence in Transfusion Medicine



### Dr. Varsha Sorathiya

Blood Transfusion Officer  
[lbc.bto@999life.org](mailto:lbc.bto@999life.org)  
99987 24121

### Dr. Sanjiv Nandani

Medical Director  
[lbc@999life.org](mailto:lbc@999life.org)  
98253 14831

### Meetal Koticha Shah

Joint Executive Trustee  
[savelife@999life.org](mailto:savelife@999life.org)

Dear Doctor,

We wish you & your team a very Happy & Healthy New Year.

Herewith, sharing the important and useful information of Whole Blood & Blood Components. It would be useful for the hospital team members.

### SUMMARY OF BLOOD COMPONENTS

Components	Storage Conditions	Dosage Effect	Special Consideration	Significance	To be transfused within
Whole Blood (WB)	4±2°C	1 Unit ↑ HCT 3% ↑ Hb-1gm% (Approx)	Must be ABO & Rh identical and X-match compatible	-	4 hours
Red Blood Cells (RCC)	4±2°C	1 Unit ↑ HCT 3% ↑ Hb-1gm% (Approx)	ABO and Rh compatible	-	4 hours
Leucocyte Reduced RBCs (LR) (Buffy-coat removed)	4±2°C	Same as RBCs	Same as RBCs	Reduces frequency and severity of FNHTRs	4 hours
Leucocyte Depleted RBCs (LD) (using labside Leucodepletion filters)	4±2°C	Same as RBCs	Same as RBCs	Reduced risk of CMV, HLA allo-immunization and platelet refractoriness	4 hours
Fresh Frozen Plasma	<-30°C use immediately after thawing	10-15 ml/kg	ABO compatible	To supplement coagulation factor	30 minutes
Cryoprecipitated Anti-hemophilic Factor (Cryo)	<-30°C use immediately after thawing	1 Unit /10 kg	ABO compatibility not required	To supplement coagulation factor (Contain Fibrinogen, Von Willebrand factor, Factor-VIII & XIII, Fibronectin)	20-30 minutes
Platelets (PC)/ Random Donor (RDP)	22±2°C with continuous agitation	Increases platelets count 5000-10000/µl per unit	Preferably group compatible, however non group specific platelets can be given	To treat Thrombocytopenia	20-30 minutes
Platelets Single Donor (SDP)	22±2°C with continuous agitation	Increases platelets count 30-60,000 per unit	ABO and Rh compatible	To treat Thrombocytopenia	30-60 minutes
* IR- Products (WB, RCC, LR RCC, LD RCC, PC,SDP)	Used immediately after X-Ray Irradiation process	-	-	To reduce TA-GvHD	-

**NAT & X-Ray Irradiated blood products available at Life Blood Centre.**