TRANSFUSION MEDICINE

	Observational design (descriptive):		
1.	Quality assessment of extended storage of platelets at 4°C as		
	compared to room temperature stored platelets, in-vitro study.		
2.	Quality and safety assessment of platelet concentrates		
	prepared by platelet rich plasma-platelet concentrate, buffy		
	coat poor-platelet concentrate (BC-PC) and apheresis- platelet		
	concentrate methods.		
3.	Setting up the benchmark for the quality indicators in		
	transfusion medicine.		
4.	What is the seroprevalence of Hepatitis E/dengue virus		
	infection (transfusion transmitted infections) in blood donor		
	population?		
5.	Does blood-borne pathogen detection methods influence		
	infectious complication rates / patient survival?		
6.	Does adopting pathogen reduction technology influence		
	infectious complication rates / patient survival?		
7.	Reverse algorithm for Syphilis screen and the importance in		
	current scenario.		
8.	Prevalence of antenatal anemia and blood transfusion		
9.	requirement in pregnant females.		
9.	Prospective audit of use of packed red blood cells in transfusion decisions among patients with anemia admitted to		
	Intensive Care Unit.		
10.	Study of red cell alloimmunization prevalence in various		
	patient population groups (hemato-oncology patients		
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11.			
	patients.		
11.	/thalassemia patients). Determination of Human Leucocyte antigen (HLA) alloimmunization in multi-transfused Intensive Care Unit (ICU)		

12.	Role of Acute normovolemic Hemodilution (ANVH) in reducing allogenic blood transfusions in a cohort of Coronary
	artery bypass graft CABG cardiac surgeries.
13.	Predicting the need for massive transfusion in patients
	undergoing elective cardiac surgery based on pre-operative
	global hemostatic assay.
14.	Hemostatic effects of cryoprecipitate versus various
	pharmacological derivatives (ex. fibrinogen derivatives) in
	adult cardiac surgery patients or obstetric patients.
15.	Impact of Preoperative anemia correction in Transfusion
	requirement of total knee replacement (TKR) and total hip
	replacement (THR) surgeries.
16.	Studying effect of blood donation on iron storage in regular
	blood donors.
17.	Prediction of rate of donor reactions based on pre-donation
	physical and psychological manifestations in blood donors
	/plateletpheresis donors.
18.	Prevalence of minor blood group phenotypes (Kell, Lewis,
	Duffy) in various regions in India.
19.	RhD Genotyping / molecular characterization to detect RhD
	variants in Rh D negative donors.
20.	Assessing utility of visco-elastic test guided transfusion
	support in obstetric haemorrhage for rationale use of blood /
	clinical outcomes.
21.	Utility of Thromboelastography (TEG) in assessment of sepsis
	induced coagulopathy in critically-ill patients.
22	Prevalence and characterisation of platelet refractoriness
	among various patient groups (ex. paediatric oncology
	patients/ Hemato-malignant patients).
23	Comparative evaluation of two-cell panel with the standard
	three –cell panel in detection of unexpected red cell
	antibodies.
24	Assessing maternal antibody characteristics affecting severity
	of Rh in Haemolytic Disease of the fetus and Newborn.
25	Utility of platelet cross-matching in the management of
26	platelet refractoriness.
26	Scope/Gap analysis of patient Blood management in various
	patient groups (Cardio Thorasic Vascular
	Surgery/Orthopaedics / Obstetrics).
27	Assessment of the knowledge, attitude, and practices about
	blood donation among blood donors.
28	Pre- and post-assessment of training programme of rational
	usage of blood components in a tertiary care hospital.

29	Pattern of blood and blood Component Utilization in a
	tertiary care Hospital.
30	Evaluating blood transfusion practices (Red blood cells,
	Platelets and Fresh frozen plasma) in a variety of clinical
31	settings.
31	Evaluation of cold chain maintenance in blood product transport.
32	Frequency of bacterial contamination rates in transfusion
	recipients.
	Experimental design:
1	Effect of double leuco-reduction compared to irradiation of
	cellular blood components on in vitro T cell proliferation
	potential.
2	Randomized Controlled Trial comparing Buffy coat pooled
	platelets with apheresis platelets in different clinical conditions
	(Hemato-oncology, dengue, Cardio Thorasic Vascular Surgery
	and trauma).
3	Modification of blood components (ex. saline wash/
	leucoreduction) and evaluating their effects on clinical outcomes
	of select patient groups (ex. Disseminated Intravascular
	Coagulation).
4	Comparison of Low Titre O-Positive Whole Blood Transfusion Vs.
	component therapy in trauma patients to evaluate use of red
	Cells, fresh frozen plasma, platelets and cryoprecipitate
	requirements in first 24 hours in each group along with 24hours
	mortality and Intensive Care Unit outcome in each group.
5	Randomized Controlled Trial comparing room temperature
	stored platelets with cold stored platelets in bleeding patients
	(Cardio Thorasic Vascular Surgery /Trauma).
6	Efficacy of Therapeutic Plasma Exchange in Acute Liver Failure
	patients due to Yellow phosphorus Poisoning.
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7	Study of Platelet Transfusion practices and Factors affecting
	efficacy of Platelet Transfusion in neonates and formulation of
	Maximum Surgical Blood Order Schedule (MSBOS).
8	Comparison of transfusion outcome in Low dose platelet Versus
	standard dose in bleeding thrombocytopenic patients.
9	Effect of Change in screening policies on donor deferral and
	demographics.
10	What are the various interventions that can be adopted to
	reduce donor reactions?
11	Comparison of safety and efficacy of transfusion support using
	monocyte monolayer assay Vs. conventional least incompatible
	blood transfusion to predict haemolytic potential of red cell
	antibodies in warm autoimmune haemolytic anaemia.
12	Implementation of Type and screen policy Versus conventional
	cross-match in elective surgical patients.
13	Gap analysis and assessing effectiveness of training programme
	on Patient Blood Management among Medical Faculty.
	Observational design (analytical):
lmr test Viru	inparison of different screening tests Enzyme Linked nunosorbent assay(ELISA), Chemiluminesence & Nucleic acide ing for Hepatitis-B, Hepatitis-C, and Human Immunodeficiency as among healthy blood donors for identification of true positives impact on blood discard rates: Cost benefit analysis.
	dy to assess the effect of donor/procedural variables on the quality
	prepared blood components. mating the voluntary blood donor return rate and determine its
	ociated factors.
	mating the incidence of adverse transfusion reactions and the
	sal factors – An active surveillance approach.
	valence of alloantibody prevalence in pregnant woman and its pact on fetus.
	luation of Anti-A and Anti-B IgM and IgG antibodies Titre in O
	up Blood Donors and associated Factors.

7	Evaluation of various techniques for antibody titration using
	conventional tube technique, column agglutination technique and
	Automated immunohematology analyzer in ABO blood group
	incompatible renal transplant.
8	Effect of donor variables on transfusion outcome in various recipient
	groups.