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## List of Abbreviations

|               |                                                        |
|---------------|--------------------------------------------------------|
| <b>AIDS</b>   | : Acquired immunodeficiency syndrome                   |
| <b>APACHE</b> | : Acute physiology and chronic health evaluation       |
| <b>APL</b>    | : Acute promyelocytic leukemia                         |
| <b>aPTT</b>   | : Activated partial thrombin time                      |
| <b>AST</b>    | : Aspartate aminotransferase                           |
| <b>ATIII</b>  | : Antithrombin III                                     |
| <b>CT</b>     | : Computed tomography                                  |
| <b>DIC</b>    | : Disseminated intravascular coagulopathy              |
| <b>DNA</b>    | : Deoxyribonucleic acid                                |
| <b>EDTA</b>   | : Ethylene diaminetetraacetic acid                     |
| <b>ELIZA</b>  | : Enzyme linked immunosorbent assay                    |
| <b>FFP</b>    | : Fresh frozen plasma                                  |
| <b>FTRs</b>   | : Febrile transfusion reactions                        |
| <b>GPIb</b>   | : Glycoprotein receptor                                |
| <b>HB</b>     | : Hemoglobin                                           |
| <b>HDL</b>    | : High density lipoprotein                             |
| <b>HELLP</b>  | : Haemolysis elevated liver enzymes low platelet count |
| <b>HIT</b>    | : Heparin induced thrombocytopenia                     |
| <b>HIV</b>    | : Human immune deficiency virus                        |
| <b>HLA</b>    | : Human leucocyte antigen                              |
| <b>HUS</b>    | : Hemolytic uremic syndrome                            |

## List of Abbreviations

|              |                                         |
|--------------|-----------------------------------------|
| <b>ICU</b>   | : Intensive care unit                   |
| <b>LDL</b>   | : Low density lipoprotein               |
| <b>LMWH</b>  | : Low molecular weight heparin          |
| <b>MRI</b>   | : Magnetic resonance imaging            |
| <b>PMN</b>   | : Poly morph nuclear                    |
| <b>PT</b>    | : Prothrombin time                      |
| <b>RBCs</b>  | : Red blood cells                       |
| <b>SLE</b>   | : Systemic lupus erythromatosus         |
| <b>TNF</b>   | : Tumor necrosis factor                 |
| <b>TRALI</b> | : Transfusion related acute lung injury |
| <b>TTP</b>   | : Thrombotic thrombocytopenic purpura   |
| <b>TXA2</b>  | : Thromboxane A2                        |
| <b>vWF</b>   | : Von willebrand factor                 |
| <b>WBCs</b>  | : White blood cells                     |
| <b>GU</b>    | : Gastric ulcer                         |
| <b>LP</b>    | :lumber puncture                        |
| <b>MAHA</b>  | : Micro angiopathic hemolytic anemia    |
| <b>PCs</b>   | : Platelet concetrates                  |

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# Introduction

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# Aim of the Study

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## Chapter One

# Blood Composition and it's Facts

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## Chapter Two

# Platelet Function and Physiology of Coagulation

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## Chapter three

# Epidemiology and Causes of Platelet Disorders in ICU

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## Chapter Four

# Platelet Preparation and Indications for Transfusion

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## Chapter Five

# Side Effects and Complications of Platelets Transfusion

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# Summary

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# References

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# Arabic Summary

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