

The following ten Quality Indicators have been defined by NABH. All blood banks are encouraged to capture the data for these indicators. Further, out of these ten, **first five Indicators** have been mandated for accredited blood bank to monitor and report to NABH every six months.

10 Quality Indicators for Blood Bank

$$1. \quad \text{TTI \%} = \frac{\text{Combined TTI cases (HIV + HBV + HCV + Syphilis + MP)}}{\text{Total no. of donors}} \times 100$$

2. Adverse Transfusion Reaction Rate % =

$$\frac{\text{No. of adverse transfusion reactions}}{\text{Total number of blood and component issues}} \times 100$$

(All major and minor reactions to be classified as per NHvPI and reported to blood bank)

3. Wastage Rates =

$$\frac{\text{No. of blood/ blood components discarded}}{\text{Total no. of blood/ blood components issued}} \times 100$$

4. Turnaround Time (TAT) of Blood Issues =

$$\frac{\text{Sum of the time taken}}{\text{Total number of blood and blood components cross matched/reserved}}$$

(Time taken to be calculated from the time the request/ sample is received in the blood bank till the blood is cross matched/ reserved and available for transfusion. Blood Bank shall set upper limits for routine and emergency issues separately)

5. Component QC failures (for each component) =

$$\frac{\text{No. of component QC failures}}{\text{Total no. of component tested}} \times 100$$

6. Adverse Donor Reaction Rate % =

$$\frac{\text{No. of donors experiencing adverse reaction}}{\text{Total no. of donors}} \times 100$$

7. Donor Deferral Rate % =

$$\frac{\text{No. of donor deferrals}}{\text{Total no. of donation + total no. of deferrals}} \times 100$$

8. **% of components =**

$$\frac{\text{Total component issues}}{\text{Total whole blood + component issues}} \times 100$$

9. **TTI outliers % age =**

$$\frac{\text{No. of deviations beyond } \pm 2SD}{\text{Total no. of batch assays}} \times 100$$

10. **Delays in transfusion beyond 30 min after issue-** sample audit by BB every month.