

# An Overview on Haemovigilance Programme of India

## Satyajeet S\*, Ruchi R, Rayaz B, Akash C and Akanksha B

National Institute of Biologicals, NOIDA, India

\*Corresponding author: Satyajeet Singh, National Institute of Biologicals, NOIDA, India,

Email: satyajeet.jh@gmail.com

#### Mini Review

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#### Abstract

Blood transfusion plays a vital role in the improvement of health and saves many lives. Haemovigilance system is the programme which ensures the transfusion safety by monitoring every step of transfusion process from donor to recipient. The ultimate object of haemovigilance system is improving the quality and safety of transfusion therapy. This article briefly describes about objective and reporting of the haemovigilance programme of India.

**Keywords:** Transfusion Safety; Haemovigilance; Haemovigilance in India

## Haemovigilance

Haemovigilance is a continuous process of data collection and analysis of transfusion-related adverse reactions in order to investigate their causes and outcomes, and prevent their occurrence or recurrence. It includes the identification, reporting, investigation and analysis of adverse reactions and events in recipients and blood donors as well as incidents in manufacturing processes and, eventually errors and "nearmisses". A Haemovigilance system is also an integral part of quality management in a blood system, triggering corrective and preventive actions, and for the continual improvement of the quality and safety of blood products and the transfusion process.

Haemovigilance is from the vein of the donor to the vein of the recipient and covers adverse reactions both due to blood transfusion and blood donation. It has two arms:

 The recipientís arm i.e. reporting of Adverse Reactions with respect to Blood Transfusion in the patient is being covered under Haemovigilance Programme of India (HvPI) with the launch of the programme on 10<sup>th</sup> December 2012 in India. ii. The donorís arm i.e. Reporting of Adverse Reactions associated with Blood Donations is being covered under National Blood Donor Vigilance Programme (NBDVP) which was launched on 14<sup>th</sup> June 2015 on World's Blood Donor Day at Science City Kolkata under the ambit of HvPI.

# **Objective of Haemovigilance Programme of India**

#### **Recipient Haemovigilance**

- i) Monitor transfusion reactions,
- ii) Create awareness amongst health care professionals,
- iii) Generate evidence based recommendations,
- iv) Advise Central Drugs Standard Control Organization (CDSCO) for safety related regulatory decisions,
- v) Communicate findings to all key stakeholders and
- vi) Create national & international Linkages.

## **Donor Haemovigilance**

i) Improve donor safety and satisfaction through monitoring, analyzing and researching adverse events,

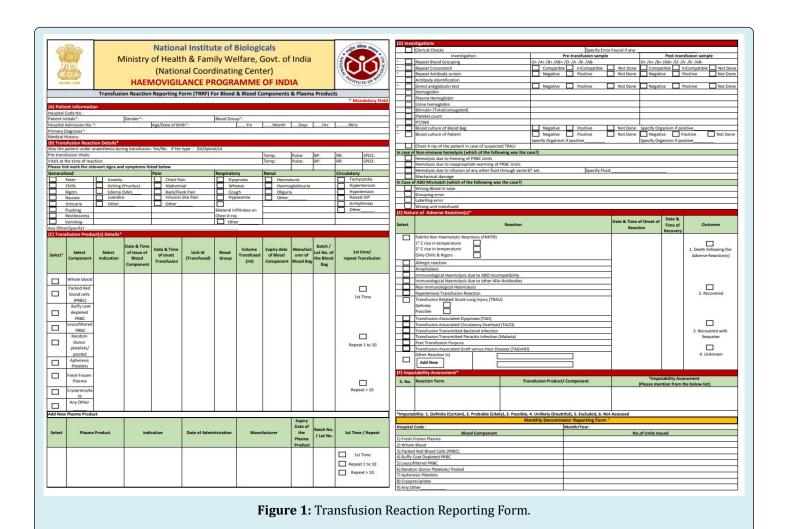
## **Advances in Pharmacology and Clinical Trials**

- ii) Analyze risk factors , implement and evaluate preventive measures,
- iii) Provide evidence based support for Blood Donation Process improvement,
- iv) Reduce the frequency of adverse events
- v) Increase donation frequency.

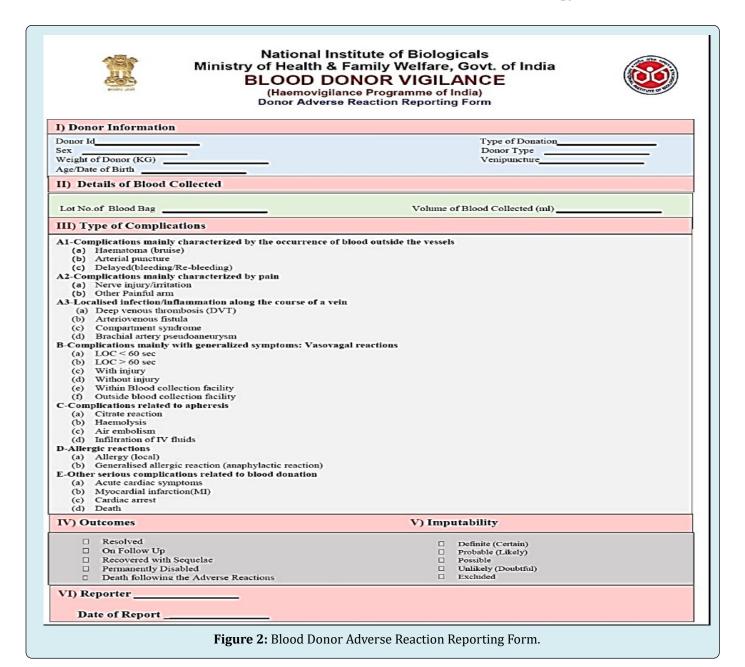
## **Reporting Under the National Programmes**

Under these programmes, the data pertaining to adverse

reactions occurring in the patients & donors is collected, collated and analyzed by expert committees under HvPI at National Coordinating Centre of HvPI, NIB. NIB has a web based reporting system for adverse transfusion reactions and donor reactions via indigenously developed software(s) Haemo-Vigil and Donor-Vigil. The reporting of reactions is done via Software(s) in a uniform format i.e. Transfusion Reaction Reporting Form (TRRF) and (DARRF) respectively Figure 1 & 2 by enrolled centres using unique user id and password being provided by HvPI. NIB also launched the Toll Free No. (1800-180-2588) for the queries related to HvPI.



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#### **Procedure to Enrolment Under HvPI**

#### Who Can Enrol?

Head/ Incharge of Transfusion Medicine Department/Blood Banks of India

#### **How to Enrol?**

1) Head / Incharge of Transfusion Medicine Department / Blood Bank provides the necessary details to the National Coordinating Centre (NCC) - Haemovigilance Programme of India (HvPI) by sending the duly filled Enrolment Form Figure 3 either to NCC at National Institute of Biologicals,

Ministry of Health & Family Welfare, Plot No. A-32, Sector-62, Institutional Area, NOIDA -201309 (U.P.) or via E-mail to NCC at haemovigilance@nib.gov.in.

- 2) NCC verifies the details provided by the centre
- 3) After verification, NCC issues the User Id and Password to the Head / Incharge of Transfusion Medicine Department/Blood Bank to access the Haemo-Vigil Software and Donervigil Software for onward Submission of Transfusion Reactions Reports and Adverse Blood Donor Reaction Reports to NCC.

| Nar e of the Medical<br>College/Ir.stitute/Hospital/Blood Bar.k   |  |
|---|--|
| Address of the Medical<br>College/Institute/Hospital/Blood Bank   |  |
| (a) Centre recognised as:- (b)Hospital Based (Government) Blood Bank (c) Hospital Based (Private) Blood Bank Stand Alone Blood Bank |  |
| Licerse Number (Blood Bank)   |  |
| Name and address of the nursing homes /<br>hospitals/ to which your blood bank issues blood<br>units (if any)                       |  |
| Name (Head / Incharge of Transfusion Medicine<br>Department /Blood Bank)  |  |
| Contact Number  |  |
| Email Address   |  |
| (Head /   | Signature & Stamp Incharge of Transfusion Medicine Department /Blood Bank) |

### **International Linkages**

India is a member of International Haemovigilance Network (IHN) since 2014. NIB has also provided its services to the Royal Government of Bhutan for establishment of Haemovigilance System in their country [1-5].

#### **Conclusion**

Haemovigilance is a continuous process of data collection and analysis of transfusion-related adverse reactions in order to investigate their causes and outcomes, and prevent their further incidence. Haemovigilance is thus a tool to advance the quality of the blood transfusion chain, primarily focusing on safety. Haemovigilance is the quality indicator of a transfusion services. The HvPI envisages protecting & promoting public health by ensuring safe blood transfusion practices in the nation.

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