

Safety in BLOOD TRANSFUSION

By: Naeema M. Rajab – ADoN
DHA-RH



- Introduction & Background
- Facts & Numbers
- Education & Monitoring
- Conclusion
 - Safe BT & Technology
 - Safe Practice & Process



- A blood transfusion is a **potentially** hazardous procedure.
- The transfusion of blood and blood products can lead to **complications and adverse outcomes** for patients.
- **Stringent procedures** must be followed to ensure that the correct blood is given and that any adverse reactions are dealt with promptly and efficiently.



- The **risks associated** with transfusion of blood and blood products usually fall into two categories:
- Errors in **procedure** such as:
 - incorrect patient identification,
 - inaccurate blood sample labelling,
 - administration of blood or blood products to the wrong patient.
- Transfusion **reactions**.



- March 2018-2019 at **Rashid Hospital** we integrated blood transfusion quality improvement system.
- We reviewed current status and practice relating to transfusion:
 - practice risks,
 - opportunities for improvement,
 - implementing practice improvement plan and
 - measuring the results.

Facts & Numbers



Sub category	2015	2016	2017	Total
Accidental puncture of bag	5	2	0	7
Blood Utilization	58	60	62	180
Delay in administering blood	1	3	2	6
Inappropriate Storage of Blood	0	3	1	4
Slow/fast rate of administration	0	1	0	1
Transfusion Reaction	28	12	23	63
Wrong blood type or product	1	4	6	11
Wrong patient wrong blood or product administration (IPSG1)	1	0	2	3
Total				275



Findings:

- 1) Policy Related.
- 2) EMR (SALAMA System) Related.
- 3) Blood Bank.
- 4) End User.

Policy Related issues:

- ✓ Awareness of policy.
- ✓ Integration with the other procedures\guidelines.

EMR (SALAMA System) Related issues:

- ✓ Easy\friendly use module.
- ✓ Flags, alerting signs.
- ✓ Including the pt. blood group in the demographic data.



Blood Bank issues:

- ✓ Number of barcode.
- ✓ Technical issues >>> delay >>> manually.

End User issues:

- ✓ Knowledge and awareness.
- ✓ Technical issues >>> delay >>> manually.

Education & Monitoring





- Number of Incidents:

2017	2018	2019
96	59	30



- Integrated up-to-date policies and procedures guidelines.
- Studies support utilization of EMR systems to enhance patient safety during blood transfusion.
- Supporting EMR system with special features to prevent errors and any potential risks.



- Standard policy.
- Standardized training.
- Multi-disciplinary approach.





- Yen-Michael, Thorsten Haas, Melissa M Cushing “Massive Transfusion Protocols; Current Best Practice”. International Journal of Clinical Transfusion , 2016:4 15-27
- L.M. McDaniel, E.W. Etchill , J.S. Raval & M. D. Neal, “ State of Art: Massive Transfusion”, Transfusion Medicine, British blood transfusion society, 2014
- RH/COP/005-Management of Blood & Blood Components, Handling, Use and Administration

The End ✨

