

Transfusion Safety Nurse Sidra Medicine, Qatar.

Brigid Aylward, RGN, RCN, Msc Nursing.

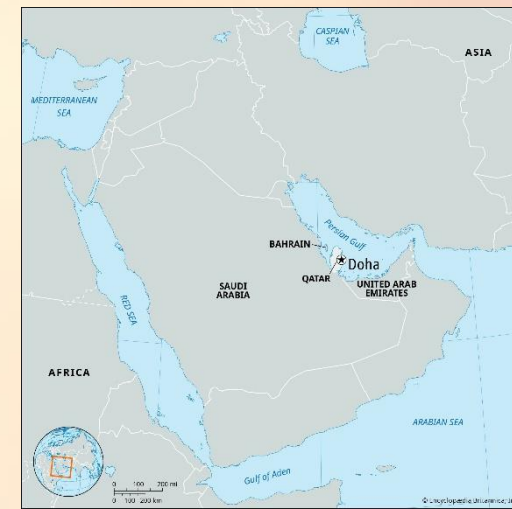


Content

- Description of Qatar
- Description of Sidra Medicine
- Creation of the Transfusion Safety Nurse (TSN) role in Sidra Medicine.
- Typical day of the TSN
- Challenges
- Accomplishments
- Future Potential Projects

Qatar – Capital is Doha

- Population of about 2.8 million people live in Qatar.
- Of this 300,000 are Qatari's and the remainder expats.
- Qatar is home to over 100 nationalities.
- Hot all year long – temps ranging in winter from 24-28C and in the peak of summer 45C.





Sidra Medicine

Doha, Qatar.

Sidra Medicine, Qatar

- Women and Children's hospital.
 - Opened doors to outpatients in 2015 and to inpatients in Jan 2018.
 - Brand new greenfield hospital in Doha, Qatar.
 - Tertiary care Pediatric center in Qatar.
 - National trauma service for Pediatrics.
 - 400 bed hospital with 150 beds activated.
 - JCI Accredited.
- **Services provided:**
 - Obstetrics/Gynae
 - Pediatric Hem/Onc
 - PICU/NICU
 - Pediatric ECMO
 - Chronic Transfusion Program
 - Cardiothoracic surgeries
 - Cath lab procedures
 - General surgeries

Creation of Transfusion Safety Nurse Role

- Role came into existence in January 2020.
- Transfusion Medical Director from Canada, requested role to be held by a Nurse.
- Role now in existence for 4 years.
- Built role from scratch – Hospital awareness of my role, what I do, how I can help clinical etc.

Priorities at beginning

- Creation of Transfusion procedure and standard of practice.
- Launching electronic application for documenting blood transfusions.
- Transfusion vital signs compliance.
- Devising competency framework for Nurses/Midwives.
- Education, education, education.

Privileges in Hospital

- Electronic Medical Record (Cerner)
- Barcode Technology.
- Electronic documentation of blood transfusions - Bridge Medical Application.
- Almost 100% compliance with documentation of blood transfusions.

The screenshot shows a Cerner EHR interface for a patient named B. Aylward. The patient's age is 4 years, sex is Male, and the care provider is Type of Service-Sole Provider. The patient is currently in an Isolation/Droplet room. The interface displays a list of medical orders and a detailed record for a blood transfusion performed on 12/05/2024. The transfusion record includes fields for SPO2 Site, SPO2 Location, Oxygen Therapy Interface, Oxygen Flow Rate, and Denominator During Vital Signs. A red box highlights the 'Blood Component Transfusion' section, which includes fields for 'Crying', 'Informed consent verified', 'Order verified', 'Pre-transfusion meds checked', 'Special requirements verified', 'Product Unit ID Number (Same as t...)', 'Product Type (Same as tag)', 'Product expiration', 'Product Blood Type', 'Crossmatch status verified on tag', 'Cosigned by', 'Pre-transfusion vitals recorded', 'Multi-unit transfusion tag present', 'Rapid start', 'Time started', 'Time on hold', 'Reason for Hold', 'Time restarted', 'Time completed', 'Signs of Transfusion Reaction', 'Transfusion reaction', 'Reaction Comments', 'Reason transfusion Not Completed', 'Comments', 'User ID', 'Red Blood Cells', 'Glycoprecipitate', 'Reconstituted blood', 'Plasma', and 'Platelets'.

Bridge Medical

Welcome B. Aylward [Help](#) [Log Out](#)

ID# [REDACTED] 4years Male DOB [REDACTED] MR# [REDACTED] ROOM [REDACTED] BED [REDACTED]

Results

Transfusions

Start Transfusion

Multi-Unit Transfusion

Hold Transfusion

End Transfusion

Rapid Start Transfusion

Administer Derivative

Browse Transfusion History

View Reaction Information

Change Blood Type

Vital Signs

Record Vital Signs

Browse Vital Signs History

What does my typical day look like:



- After travelling the 20 mins to work dodging the erratic driving, I get to work for 8am.

- Coffee ☺



- Acute Tasks - Clinical priorities:

- Responding to emails/sending – IT, Clinical staff, follow-ups.
- Transfusion reactions – Collecting information, investigating, reviewing, resulting.
- Incident follow-ups – Transfusion incidents assigned to me.
- Scheduled Teaching – new hire nurses, refresher training,
- Ad hoc teaching - Physicians, hospital wide teaching
- Competency sign-off's – new hire nurses/midwives.
- Scheduled meetings – project meetings, team meetings.
- Clinical referrals from Blood Bank

Non-acute (but important) tasks/projects:

- Addressing practice gaps – reaction management,
- Organize hospital blood donor drives
- Audits – transfusion process
- Practice gaps addressing – transfusion vital signs (18.4% to 60%), PPID/PAID process.
- Quality Improvement projects
- Policy & Procedure updates
- Clinical stakeholder for any transfusion related topic – (extravasation of blood).
- MTP Simulations
- Creation of e-learnings/updating.


Ultimately....every aspect of the role involves:

- Ensuring that blood components are transfused with the:

RIGHT:

1. Product
2. Patient
3. Dose
4. Time
5. Reason
6. Site
7. Documentation
8. Response

Challenges

- Majority of nurses working in this hospital have not worked in hospitals with a TSN.
- One of me... can be lonely ... 
- No Middle East network of TSN's/TP's.
- No equivalent of SHOT here in Middle East.
- Poor culture of donating blood.
- Clinical – no time to learn! (moving e-learning style 😞)

Accomplishments

- Created and delivered CPD accredited Blood Transfusion Safety program for all staff.
- Creation of electronic dashboards to measure transfusion vital sign compliance, transfusion activity and time of transfusion.
- New transfusion portal page for a one-stop-shop for all clinical transfusion related information.
- Competency pathway is now in place for all new hire nurses and competence now tracked on an electronic dashboard.
- Blood Transfusion Newsletter introduced – Fun, educational and informative way for staff to learn.
- Implemented a training framework on handling and transporting blood components from the lab.



Future Potential Improvements

- Pre-op Anemia Clinics.
- Wider use of Rotem POC to help avoid transfusions of Plasma/Cryo.
- Introduction of Irradiation cards to patients who meet irradiation criteria.

Thank you

Shukran
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Go Raibh Maith Agat