



NHSSCOTLAND GLOBAL CITIZENSHIP CONFERENCE 2019

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Introduction/Background



- The Zambia National Blood Transfusion Service is Statutory Board under the Ministry of Health (MoH) established under Statutory Instrument (SI) 147 of 1997 with the mandate to provide Safe and Sufficient blood to all patients in Zambia
- □ Vision: to be a world class BTS provider by 2030
- Nationally coordinated blood transfusion system, based on WHO guidelines to ensure Sufficiency, Security, Safety, Sustainability and Equity of blood and blood products.





Governance

ITEM	STATUS
Blood policy	Complete
Strategic Plan for implementing the blood Policy	Complete
Legislation	in Draft form
Guidelines on clinical Use of blood	Due for review
Hemovigilance	Under development



Customer Categories



Description	Qty
Public Hospitals	82
	02
Mission Hospitals	37
Military Hospitals	4
Private Hospitals	38
Total	161





Blood Donors & Blood Collection

- 100% : VNRBD
- Average Blood donation Rate: 7.3/1000 pop
- Donor Deferral Rate: 1.6%

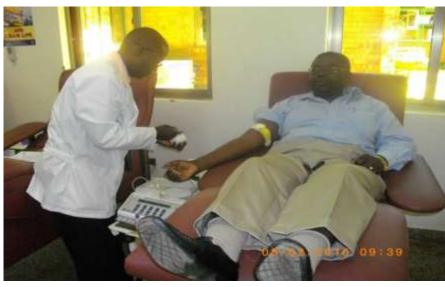




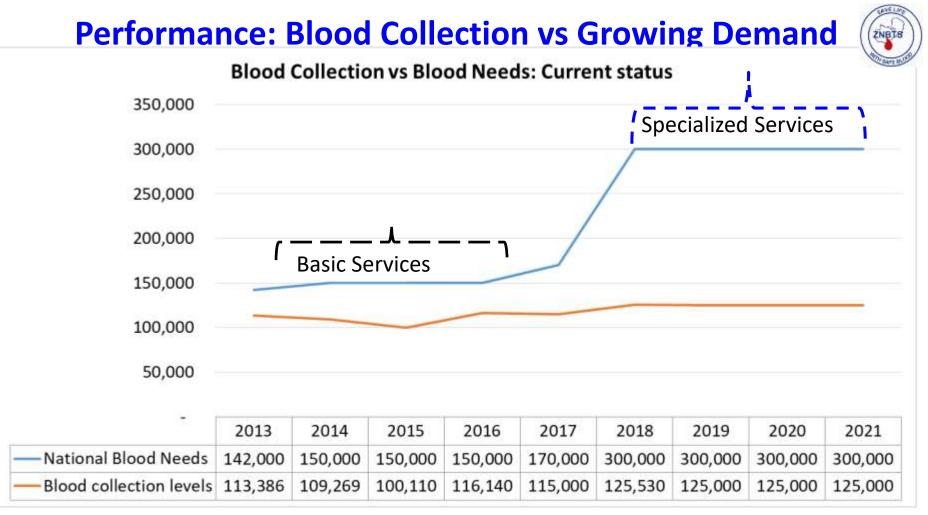
Blood Donors recruitment, Interview & Blood Collection











Basic services

- Anaemia in Malaria
- Basic Surgery
- Maternal hemorrhage
- HIV related Anaemia
- Blood disorders (acquired & congenital)
- Nutritional deficiencies
- Worm infestation

Specialized services

- Oncology
- Hematology
- Renal Transplants
- Cardiac surgeries
- Red Cell Exchange for Sickle Cell patients
- Pathogen inactivated products
- Leucodepleted products for pediatric patients

Therapeutic Apheresis







 Current automated TTI testing platforms: (HIV Ag/Ab, HBsAg, HCV Ab and Syphilis Ab)





Serology testing platform: Architect

Upgraded Serology Testing platform: Alinity





Blood processing





Source: Zambia National Blood Transfusion



Automated Whole Blood processing



- Terumo Reveos Automated blood processing system
 - Leucodepleted products
 - Automatic Pathogen inactivation in component processing
 - Automatic pooling of products
- Single Platelets
- Pooled platelets
- Pooled Plasma
- * PDMPs not yet in place



Blood Product Storage

• Cold chain equipment



Source: Zambia National Blood Transfusion



Clinical Interface











General Weak donor recruitment, retention and reminder program

□ Weak Quality Assurance/Control system

□ Lack of Hemovigilance program

Lack of Specialized Training in Blood Transfusion (in-service: Nurses, Biomeds, Medical doctors and prescribers of blood)

Lack of undergraduate/Post graduate training in Blood Transfusion

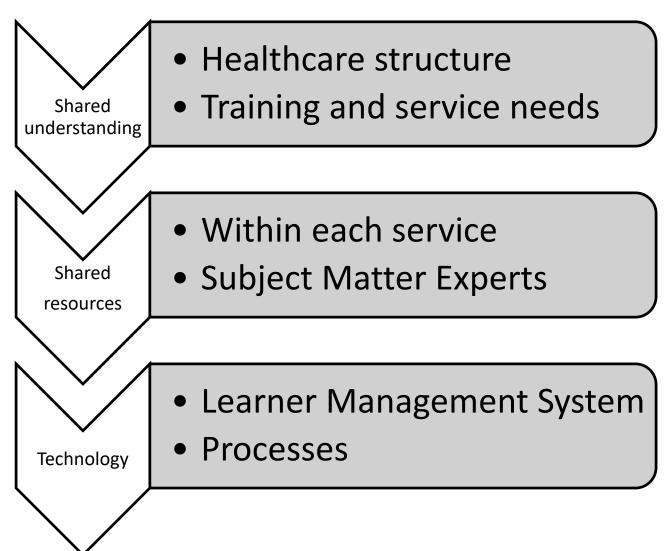
Background to collaboration

- https://zadp.org/
- **Learnbloodtransfusion** elearning programme
- □ Identified key stakeholders
- United Kingdom & Republic of Ireland Better Blood Transfusion Network
- □ Shared understanding of learning
- Established project group
- Scoped training and service needs
- **Quality Improvement methodology**

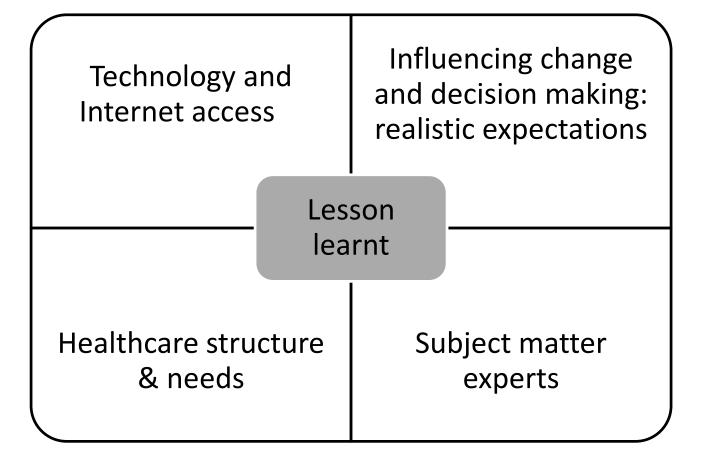
Evolution of Collaboration with NHS Scotland

	Milestones	
Feb 2019	Scottish government Minister for International development meeting with Zambian Minister of Health	
Focus areas	Blood Services	
	Emergency Health Services	
	Mental Health	
Blood Services	Quality Improvement (QI) Fellows 4 months mission to ZNBTS	
	 Conducted baseline assessment and have developed QI projects for implementation as follows: Donor Recruitment, Retention & Reminders Hemovigilance Accreditation & Quality Assurance Rollout of Scottish Blood Transfusion Training Curriculum development E-learning Clinical training Under & Postgraduate training Under & Postgraduate training 	

Synergy of challenges



Lesson learnt to date





SNBTS Transfusion Team





SNBTS Donor Services Team





Thank you for listening

Any questions?