

17th International Haemovigilance Seminar 9-11 March, Paris - France



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NATIONAL BLOOD BANK SERVICE

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ETHIOPIA



17th IHS Paris, March 9-11. National Blood Bank Service of Ethiopia

Ethiopia : Country Demographics

- Current population : **> 90 Million**
 - 19.4 % urban** population (20,202,815 people in 2016)
- The **median age** in Ethiopia is **18.9 years**.
- economy depends heavily on the agriculture sector ;contributes over 45% of the (GDP)
- **Government : Federal System**
 - **Parliamentary –Prime Minister :Head of Government**
 - **9 regions and 2 city Administrations**
 - **Home to variety of nations & nationalities ; more than 80 different languages**

Health System Overview

- Core elements of Ethiopian Health policy (1993):-
 - Decentralization of the health care system,
 - Development of the preventive, promotional and curative components of health care,
 - Assurance of accessibility of health care for all segments of the population
- Health Sector Transformation Plan —
(2015/2016 - 2019/2020) has as one of its important initiatives-
 - Blood Safety

Health System Overview

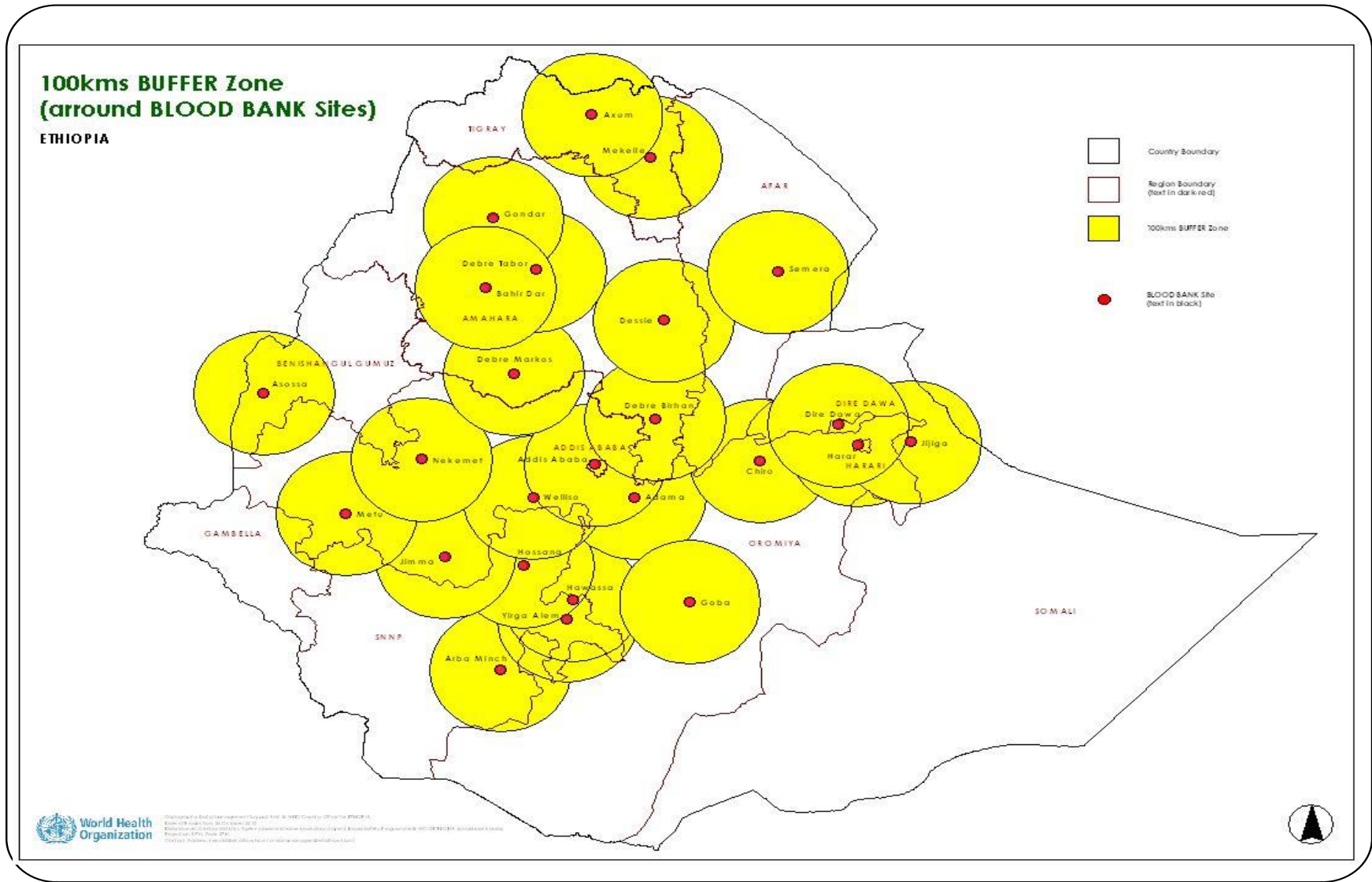
- Delivery of health services is decentralized to the regional government health bureaus.
 - public hospitals 261
 - *Hospital Beds – >17 000*
- The health staff to patient ratio stands at:
 - 1:32,132; Doctors
 - 1:15,252; Health officers
 - 1:1,884 ; Nurses (2012/13).

Blood Transfusion Service

National Blood Bank Service of Ethiopia

- Established and provided by the Ethiopian Red Cross Society from 1969 to 2010
 - 12 regional blood banks (52% of the hospitals in the country)
- Transferred to the Ministry of Health
 - 25 blood banks have been functional since the end of 2013.
- Autonomous agency under the Ministry of Health as of January 8, 2015

Location of Blood Banks



National Blood Bank service of Ethiopia(NBBS)

Blood collection in units

	2013	2014	2015
TOTAL COLLECTION	63,307	87,685	127,838

- **Collection from voluntary Non remunerated Blood donors**

	2013	2014	2015
VNRBDs	10%	70 %	95.2 %

- NBBS center in Addis Ababa : 100% from VNRBDs (48,255 units)

National Blood Bank service of Ethiopia(NBBS)

Blood Component Production

*Mainly done at the central Blood Bank

- 2014 : 12,425 (31%)
- 2015 : 19,811 (59.2%)

Plan for 2016 : 50 % of total collection at the national center

National Blood Bank service of Ethiopia(NBBS)

Donation Testing

Transfusion Transmissible Infections

- All blood units collected screened for:
 - HIV 1/2 Ag /Ab ,
 - HbsAg and
 - HCV Ab
 - Syphilis Ab
- All testing Nationally done using ELISA technique

Blood grouping

- Direct ,reverse and Rh typing

National Blood Bank service of Ethiopia(NBBS)

Haemovigilance systems

- No system Before 2012 on blood units issued to the hospitals.
- In 2013 the blood bank prepared and signed a memorandum of understanding (MOU) with all of the hospitals who received blood from the National Blood Bank and its network.
 - hospitals to report or to give feedback for each unit of blood they receive from the blood banks
- Legislation that gives a mandate to the NBBS of Ethiopia to oversee transfusion activities across the country

National Blood Bank service of Ethiopia(NBBS)

Accomplishments

Patient Haemovigilance

- Development of standardized reporting tools for hospitals
- Printing and distribution of the reporting tools to hospitals
- 80% of the hospitals in the capital report adverse reactions on regular basis
- Uniform use of standardized practice in adverse event reporting and traceability

National Blood Bank service of Ethiopia(NBBS)

Accomplishments

Patient Haemovigilance

- Hospital transfusion committees are established in 60% of the hospitals (the whole country)
- Training is given for clinicians in appropriate clinical utilization of blood and blood products (>1000 Physicians)
- Reporting of transfusion reactions with its type is also integrated in the national health management information system

National Blood Bank service of Ethiopia(NBBS)

Accomplishments

Donor Haemovigilance

- There is a standardized national donor reaction registration books (pick the donor who had previous adverse reaction)
- Post donation counseling started for blood donors in NBBS and selected 5 regional blood banks on May 2015.
- **The formation of The National Haemovigilance department under the National Blood bank service**

National Blood Bank service of Ethiopia(NBBS)

Haemovigilance systems

Gaps still to be Adressed

- Reporting still based on Manual system
- Gaps in reporting adverse reactions
- Non-functional HTC's
- Poor Haemovigilance system in the regional Blood Banks
- Inadequate Training

National Blood Bank service of Ethiopia(NBBS)

Haemovigilance systems

Way forward

- **Strengthening of the haemovigilance Dept.**
 - Training for Physicians and health personnel
 - Supporting Hospital transfusion committees
 - Strong follow up on adverse reaction reports
 - Scaling up post donation counseling to all blood banks
 - Capacity building of staff on donor haemovigilance
 - Cooperation with IHN & Blood Services

National Blood Bank service of Ethiopia towards African Society Of Blood Transfusion(AfSBT) Stepwise Accreditation

- With the support of the World Health Organization (WHO) and The South African National Blood Services (SANBS) providing technical assistance on its behalf
- An assessment team from SANBS has conducted three round of visits and assessments to the national centre selected regional blood banks since 2014
- Roadmap developed and PMs' Assigned based on the assessment and the requirement of the AfSBT standard.

- Registered with the ISBT 128 labeling system and in communication with ICCBA to implement the system
- Construction of Additional 12 blood collection centers underway
- On process : Implementation of Blood Safety Information System

The NBBS plans to apply for Accreditation by the AfSBT in Mid 2016

Merci!