

**Quality , Quantity and  
Sustainability - Is it time to rethink  
on independent blood banks**

**19 November 2016, ISTM Bhopal**

**Government  
Blood Banks**

**Blood Banks in  
Private Hospitals**

**Independent Blood banks  
“Bread and Butter”**

**Independent Blood banks  
run by credible NGOs**

# [www.jeevan.org](http://www.jeevan.org)

- **1995** 100% comp Blood Bank. P24 testing.
- **1995** Anti HBc since inception, AgAb assays
- **1999** First blood Centre in India to be certified to ISO 9000 standards.
- **2000** Introduced Blood Storage Centre concept which became a national policy in December 2001.
- **2005** Transfusion associated Leptospirosis
- **2010** First independent blood bank in South India to be accredited by NABH

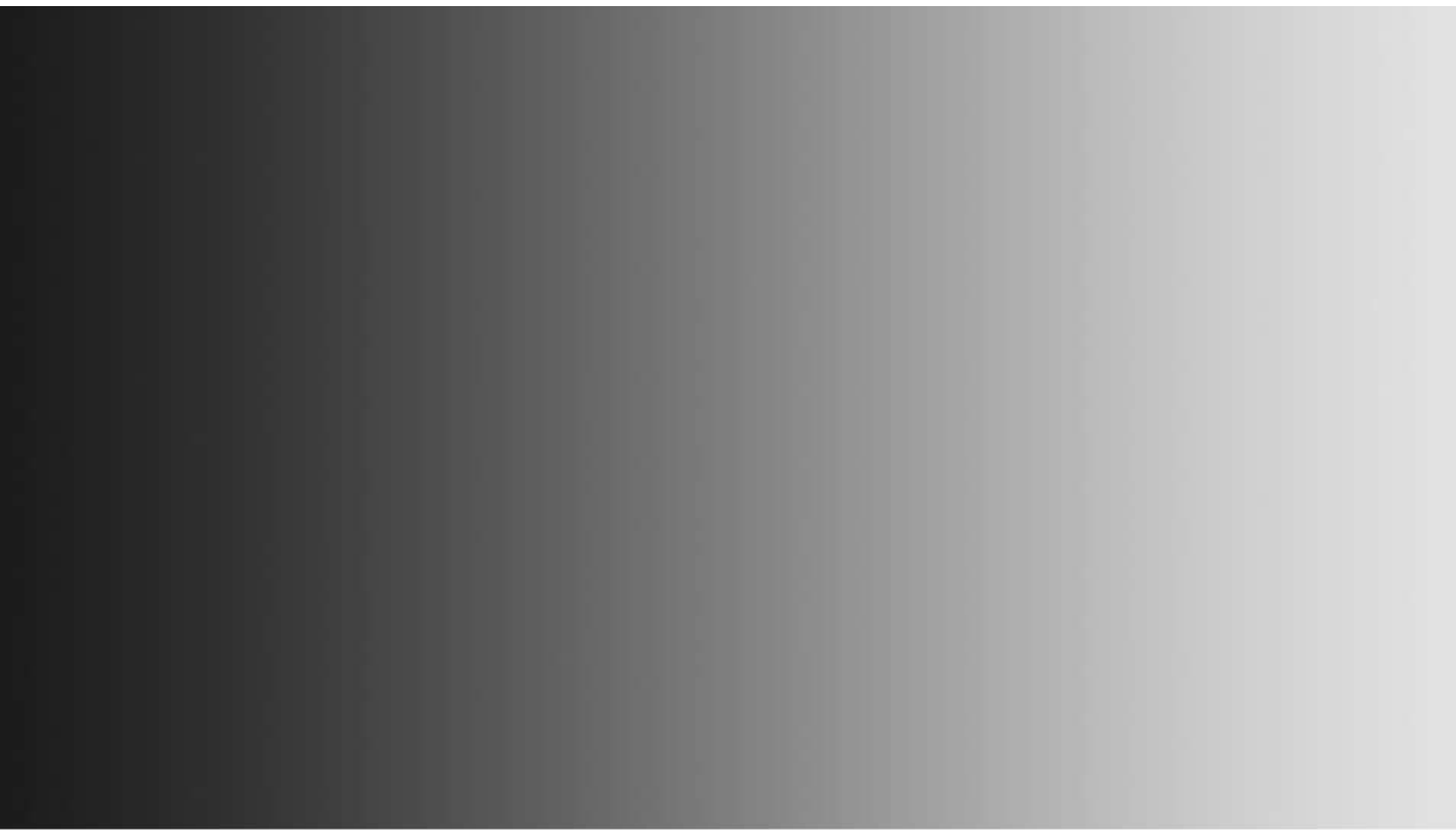


# [www.jeevan.org](http://www.jeevan.org)

- **2008** First Public Cord Blood Bank. The largest active public cord blood bank in South Asia region
- **2013** High resolution HLA typing Laboratory and met international standards. Moving on to NextGen Sequencing
- **2014** Registered with US FDA
- **2015** Established “Be The Cure” Bone Marrow Donor Registry. Recruiting blood donors



*Safety First*



**If an Indian Needs  
Near “0” Defect Blood  
Components**

# Finding The Right Blood Bank

- **Licensed (!) > 2200**
- **100% Voluntary Blood Donations ???**
- **Accreditation – less than 85**
- **Competent Transfusion Medicine Specialist and technologists (<50%)**
- **Appropriate assays with or without NAT - OBV**

# **Blood Safety**

- **Qualified and “Competent” Human Resource**
- **Standards and Quality Systems**
- **Appropriate Technologies**
- **Suitable Infrastructure**



**Challenge One**

**Human Resource**

# **Competent Human Resource**

- **Qualified and “Competent”**
- **M.D. Transfusion Medicine has rightly become the standard. Minimum of 18 L per year**
- **You also need an additional Medical officer!**
- **Retaining competent technologists comes with a cost**
- **Annual increase in admin and human resource cost**

# **Challenge Two**

**Quality Systems, Standards  
and Accreditation\***

**Least appreciated  
component !**

**Accreditation  
NABH Failed ?**

# **Challenge Three**

**Appropriate Technologies**

**Ag Ab assays**

**Over emphasis on NAT  
without addressing VBD**

## **Challenge Four**

**Real-estate in accessible  
locations is not cheap**

# **Economics**

# Fixed Expenses

- **Human Resource**
- **Quality system and practices**
- **Infra Structure at app Rs.40 / Sq feet.  
Minimum of 1500 to 2000 Sq feet**
- **Electricity Cost at app 50,000 p.m.**



# Variable Expenses

- **TTI Screening with Ag+Ab assays, Malaria (Chromatography), Syphilis, Anti HBc (Total) at app Rs. 500**
- **NAT**
- **Antibody screen for donor and recipient, Group**
- **Blood Bags : Double vs Triple**

# Processing Cost Is Influenced By

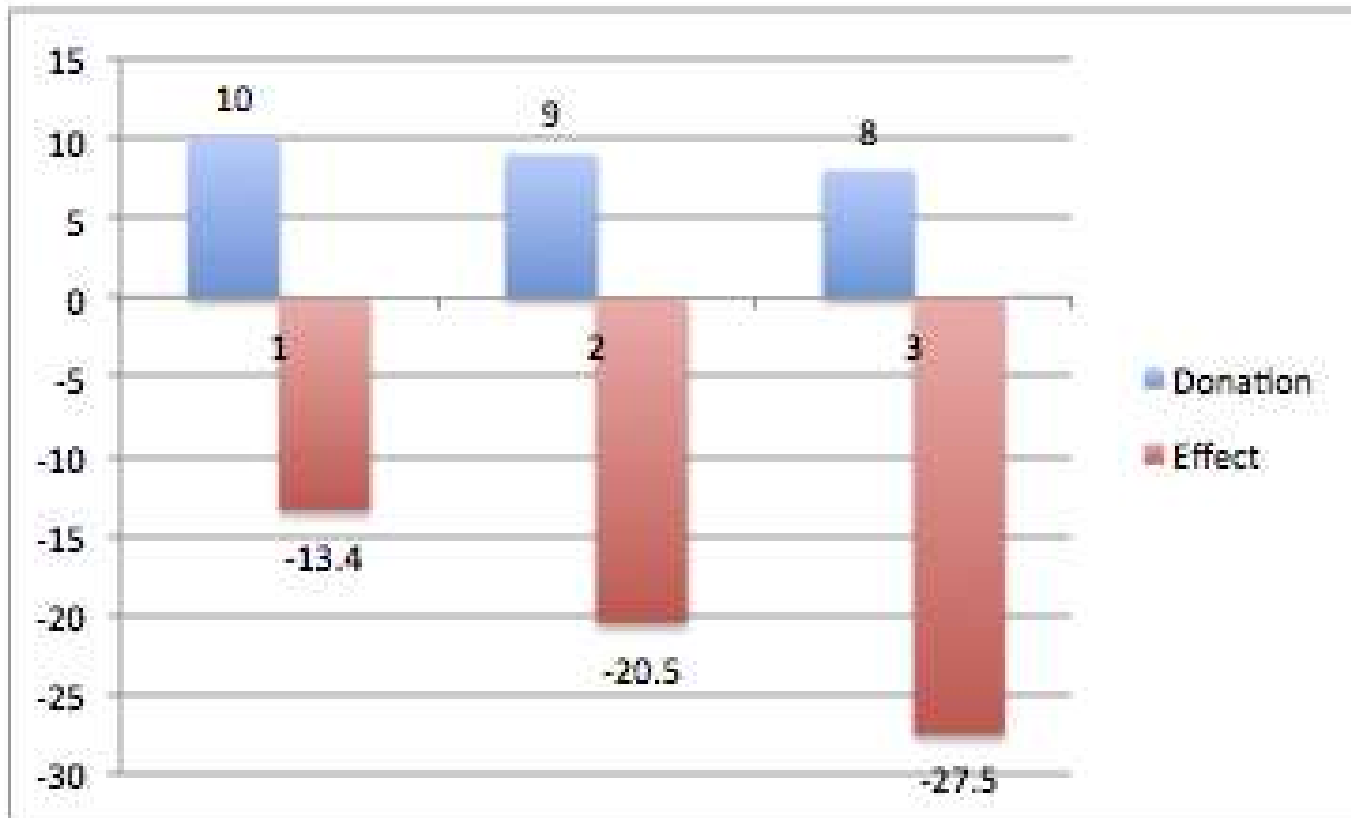
- **Number of blood donations**
  - Donor hospitality and blood bag
  - Number of incomplete donations
- **Number of rejections due to positive TTI (2 to 12%)**
  - Occult HBV infections
- **Number of units of different components released for transfusion: Variations across the year**

# Recovery Charge For Components

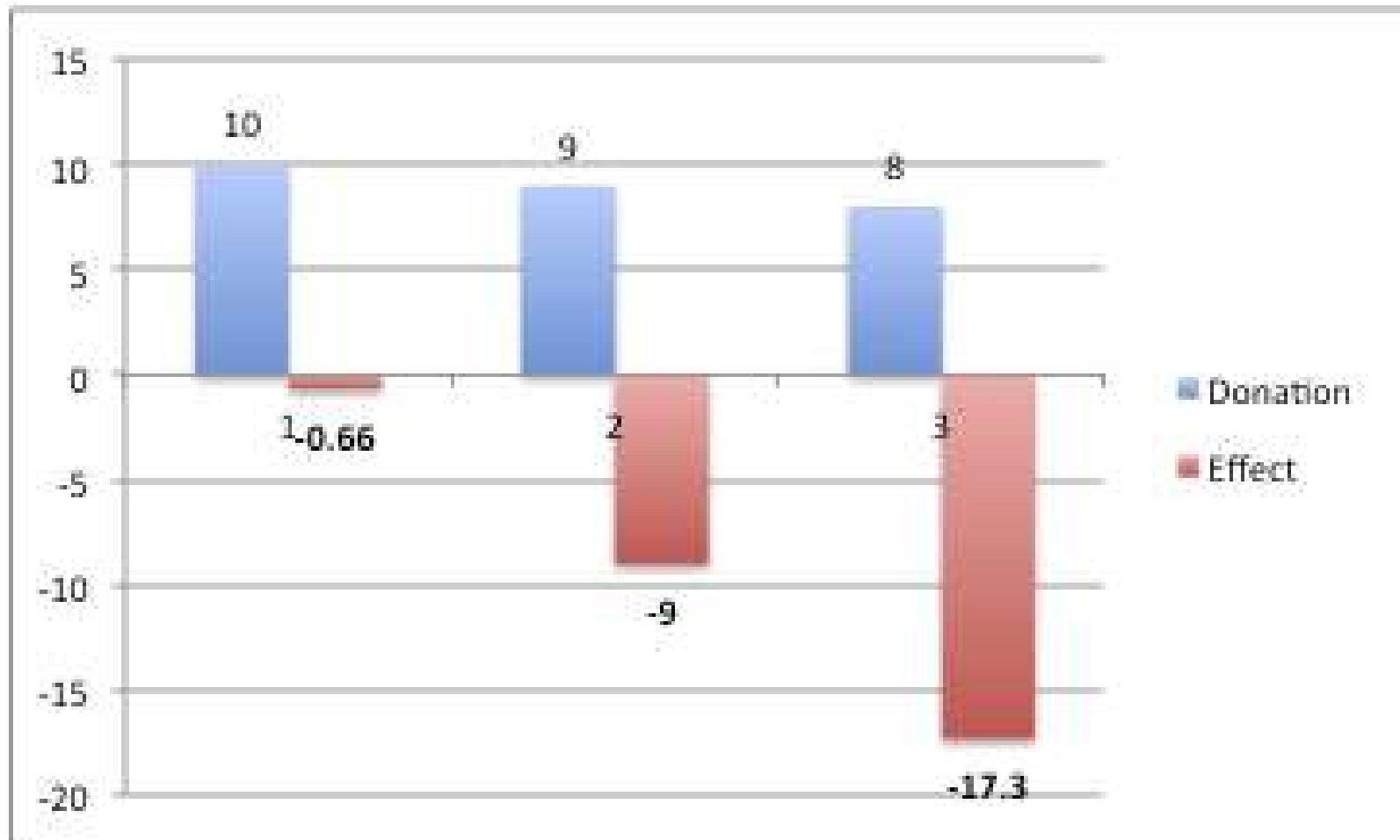
- **PRBC**                      **Rs. 1600**
  
- **RDP**                        **Rs. 650**
  
- **FFP**                         **Rs. 650**
  
- **Fractionation** **Rs. 2100 / L**

# **Analysis**

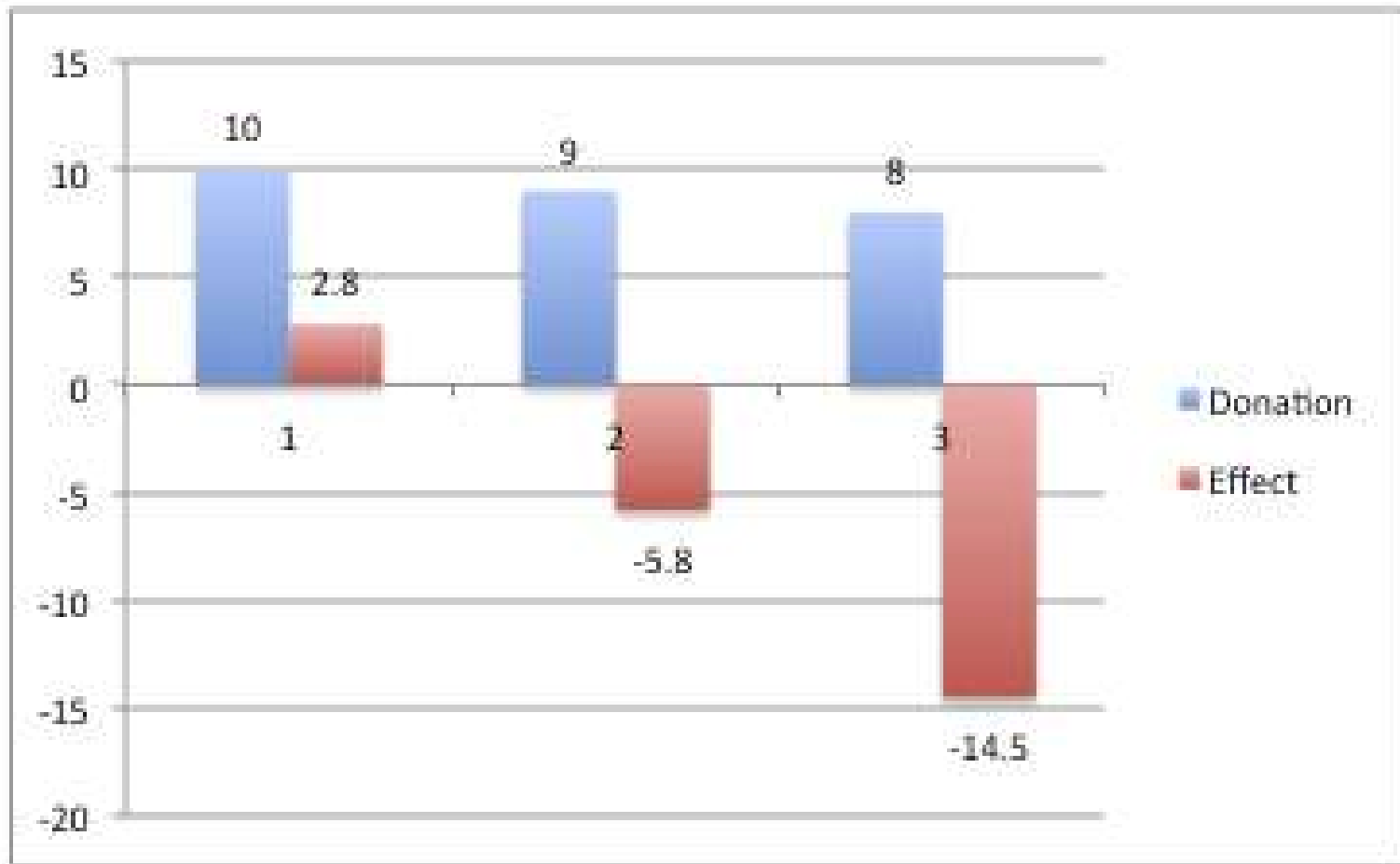
**80 30 30**



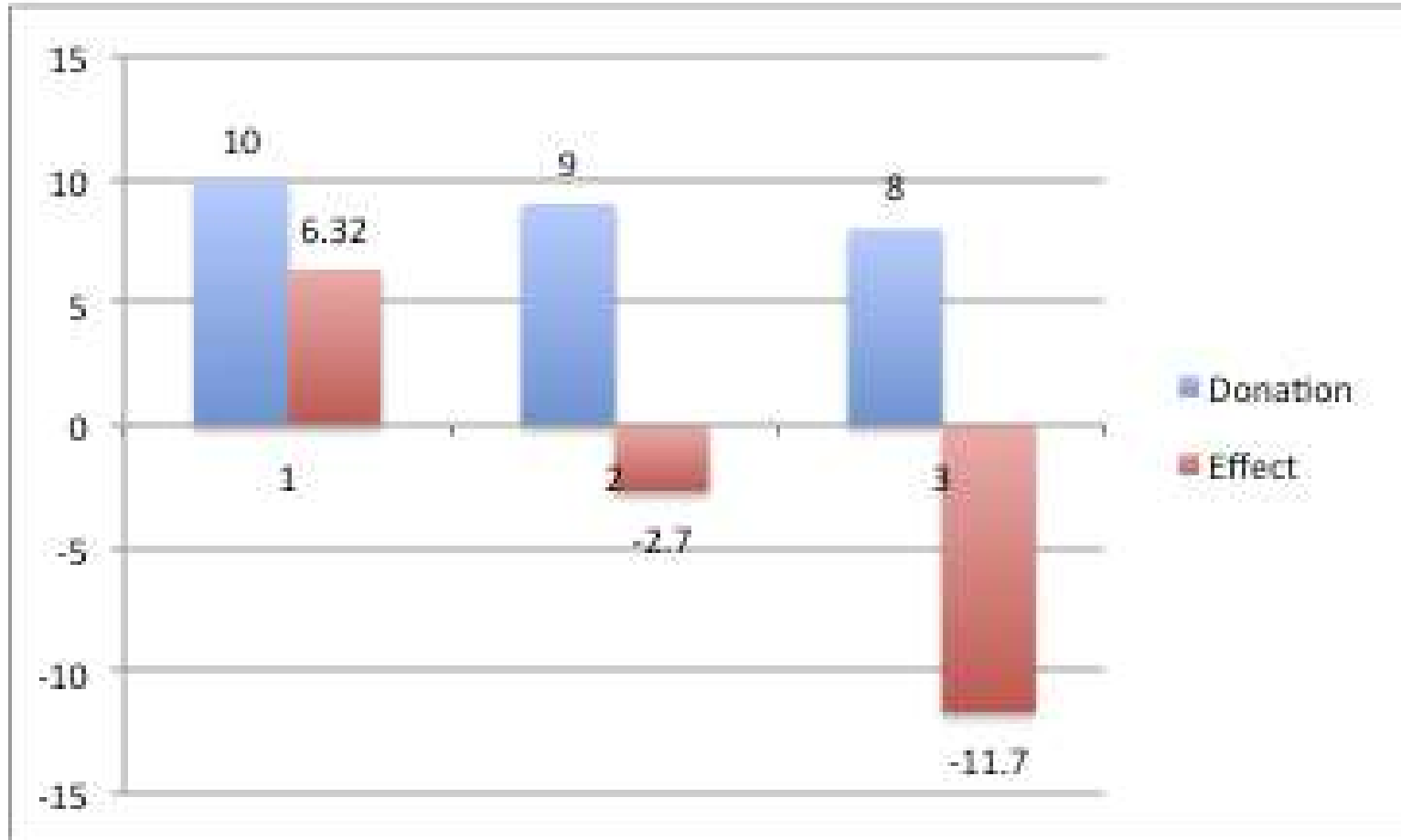
**90 30 30**



# 90 40 30



90 50 30

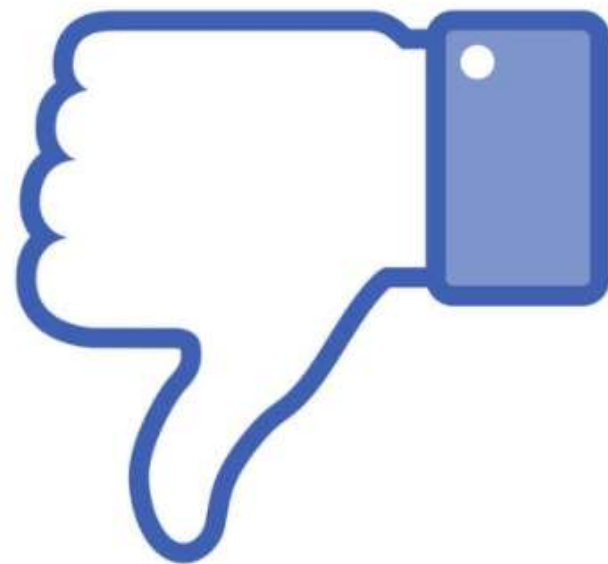




# The Facts !

- **Unethical practices for securing blood donation camps**
- **SDP > RDP**
- **“Fee splitting”**
- **Annual increase of expenses by a minimum of 7.5%**
- **No provision for annual increase in processing fee**

# **What Should Be The Future of Independent Blood Banks?**



# **The Way Forward**

- **Make RBTC meaningful !!!**
- **Minimum of 10,000 blood donations a year**
- **All blood Banks collecting less than 10,000 donations, covert to blood storage centres**
- **After 1 year withdraw license to collect blood donations for these**
- **Central Blood Bank in each district headquarters and better logistics**

**3**

**2**

**1**





**Blood Bank @ Jeevan**

**1995 - 2017**

# BETHECURE

FOR INDIANS WITH BLOOD CANCER,  
THALASSEMIA AND OTHER BLOOD DISORDERS

[www.bethecure.in](http://www.bethecure.in)