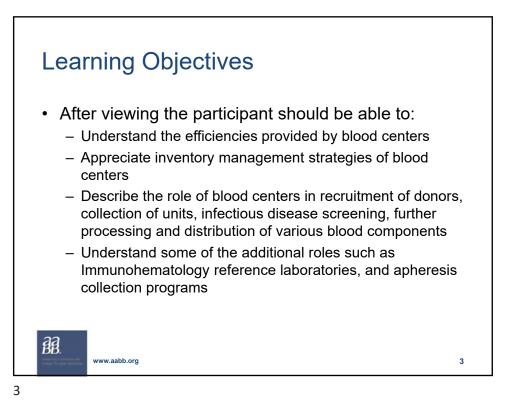


I am employed by Memorial Blood Centers, a division of New York Blood Center enterprises. I am also medical director of Nebraska Community Blood Bank and Community Blood Center of Greater Kansas City.
I am also Transfusion Service Medical Director for Hennepin County Medical Center (HCMC) and Children's Hospitals and Clinics of Minnesota

2

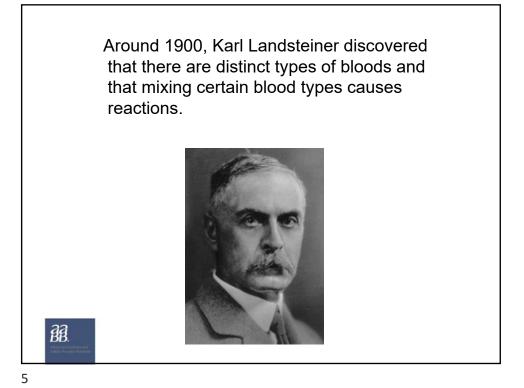
BB

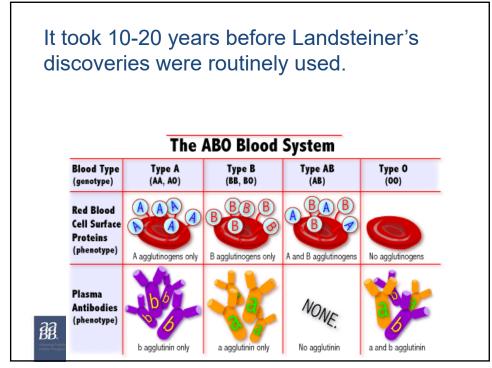
www.aabb.org

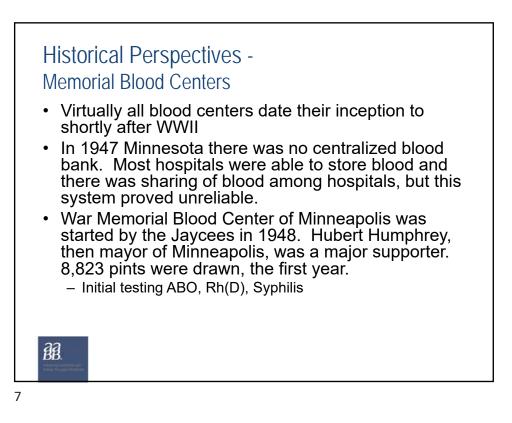


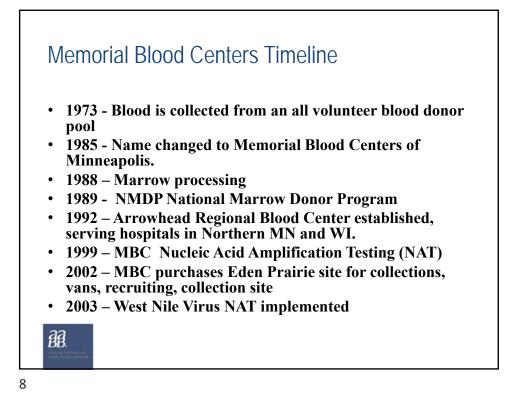


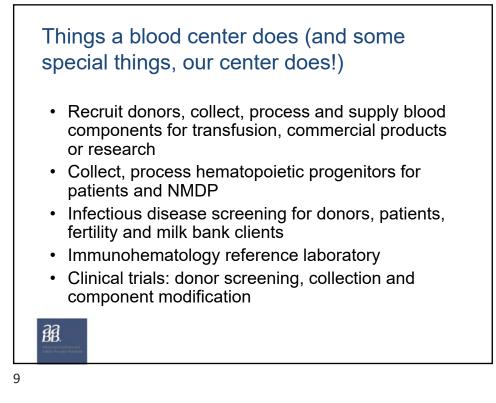


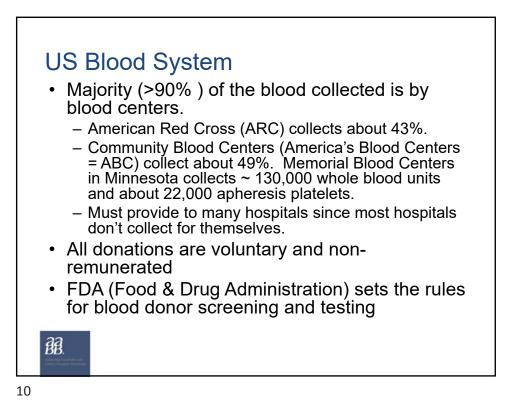


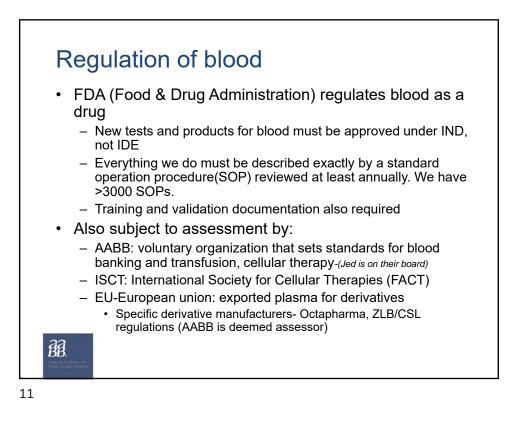


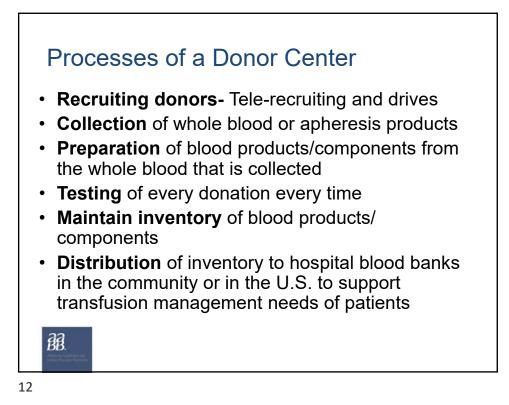


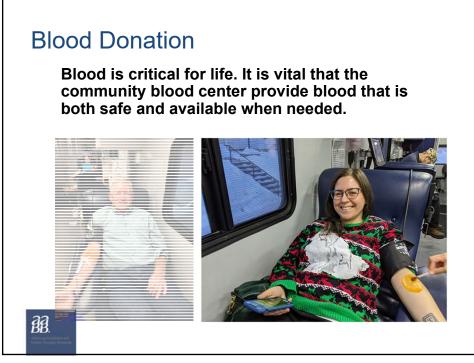


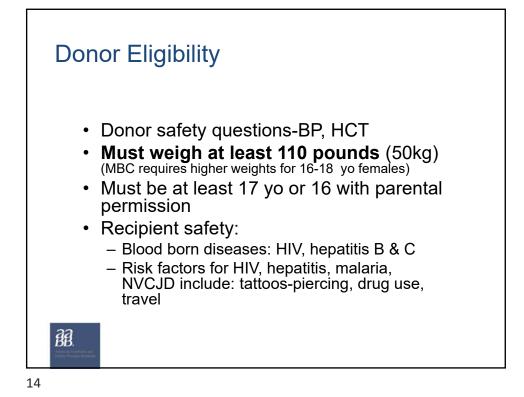


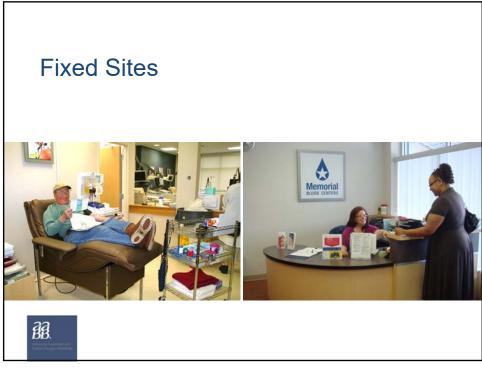






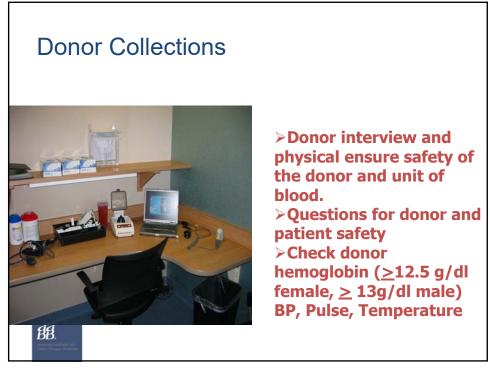


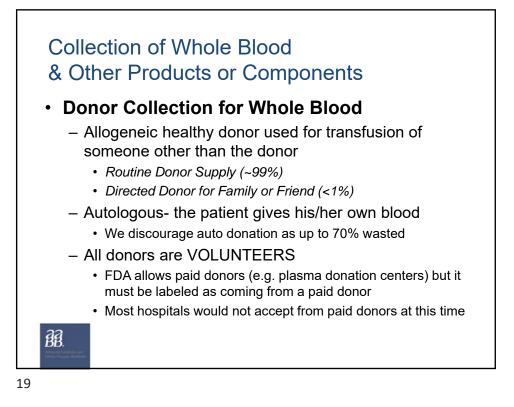


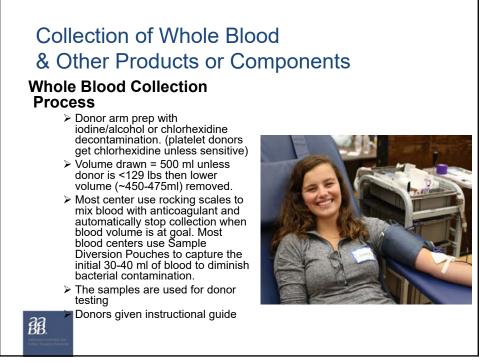




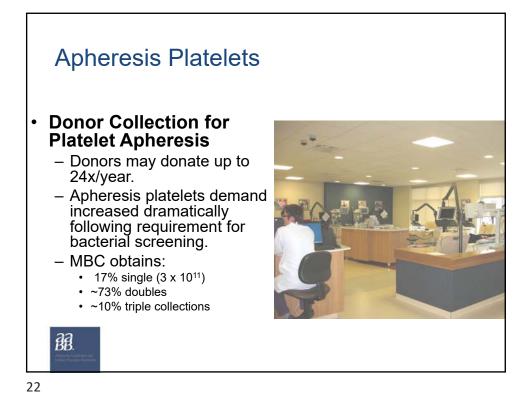


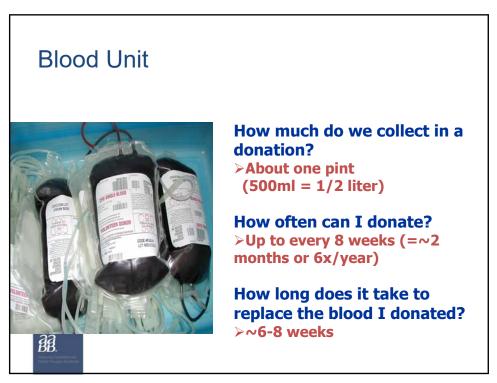


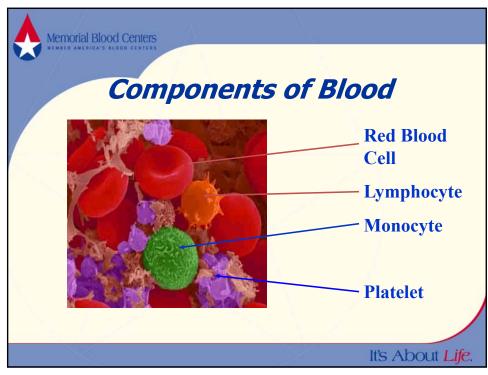


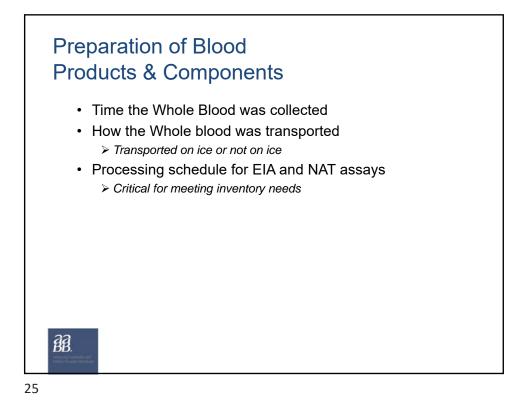


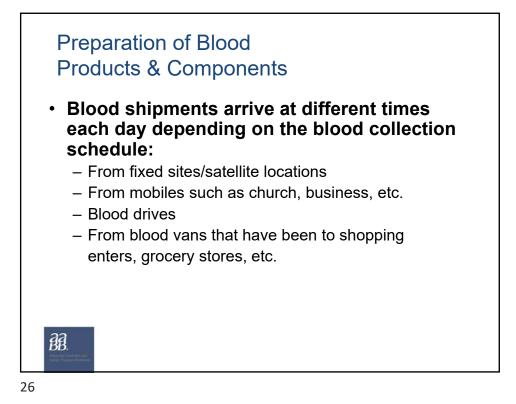


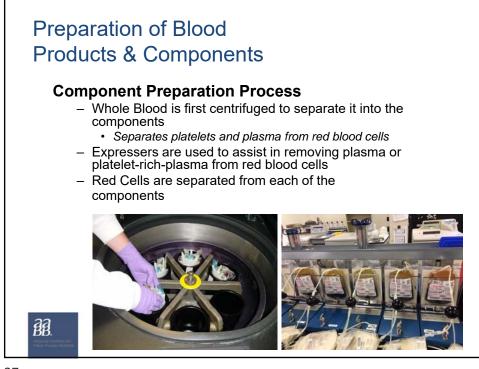


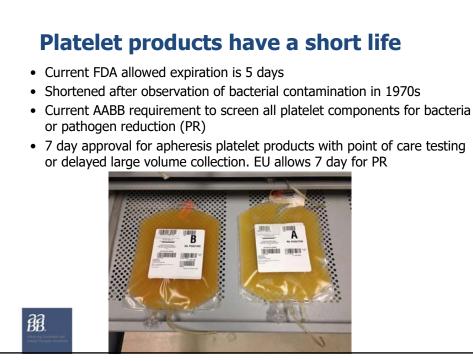


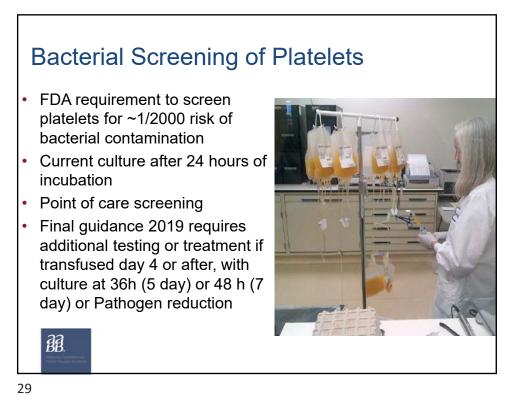




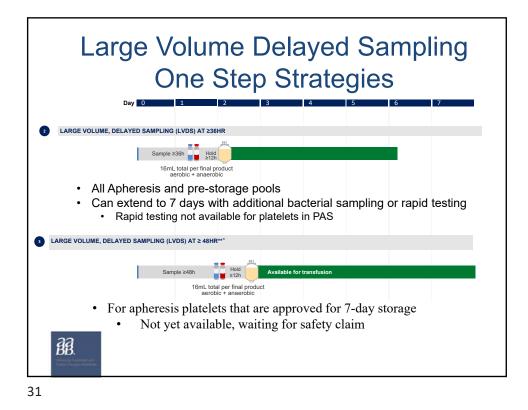


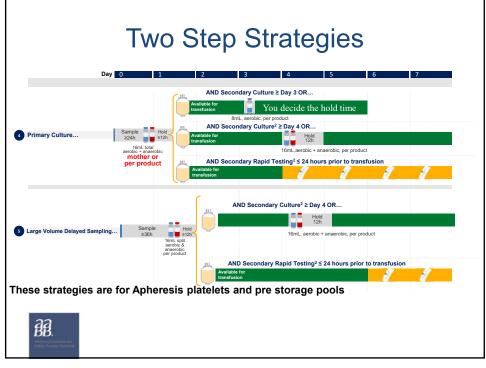


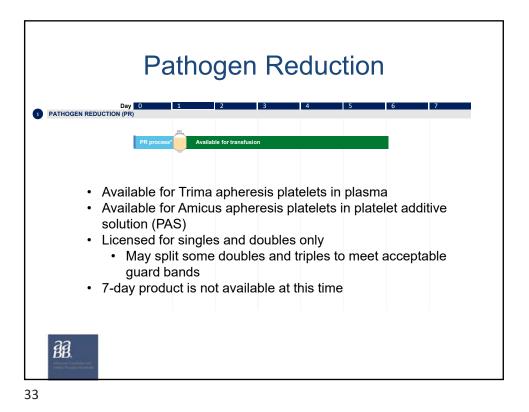


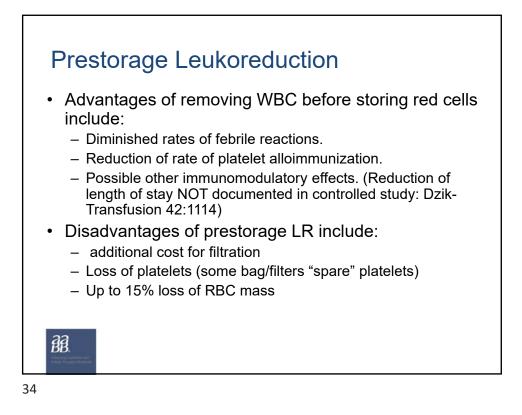






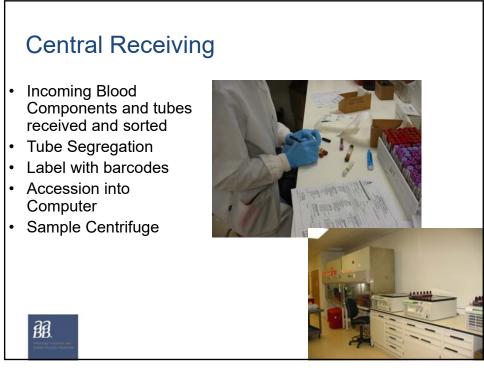


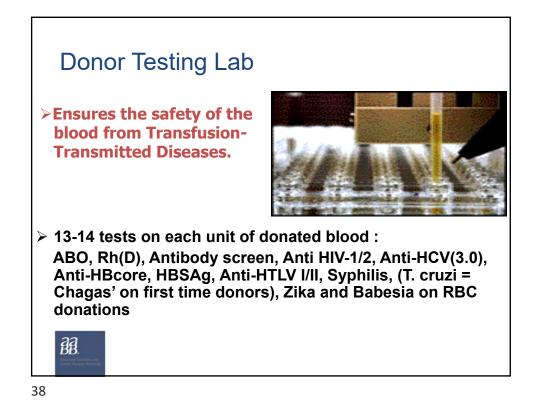


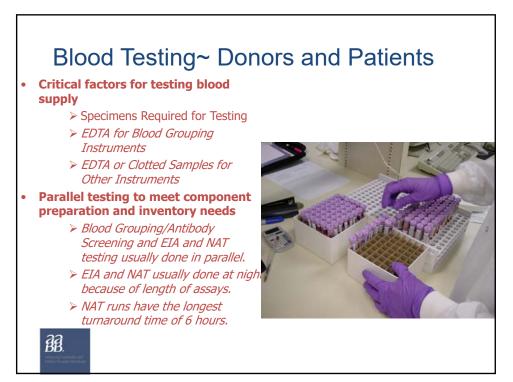


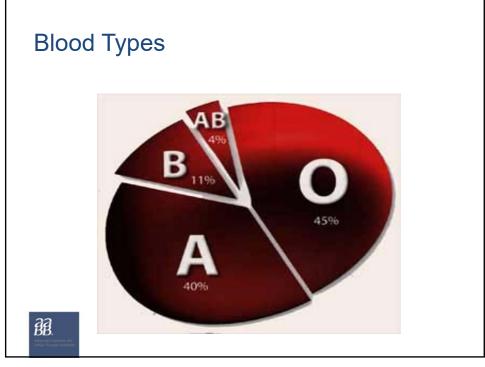


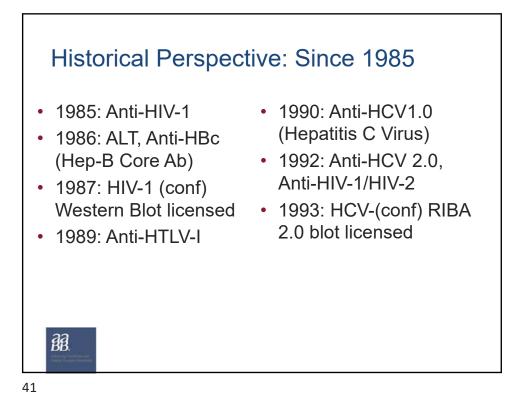


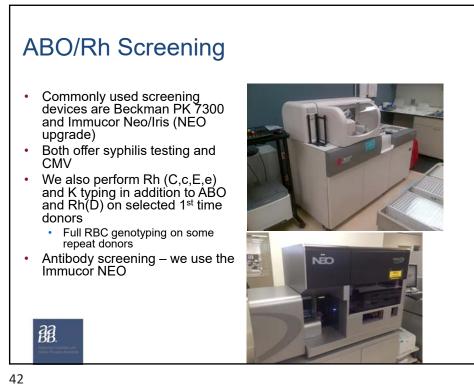


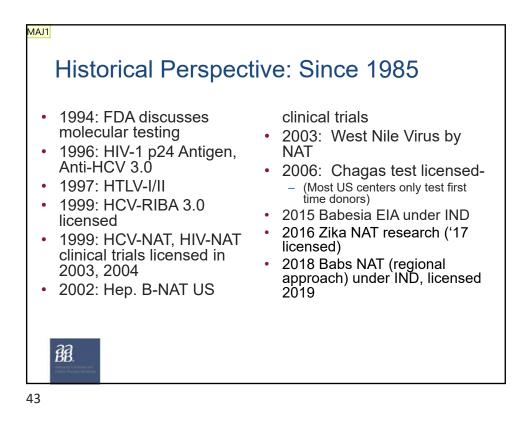










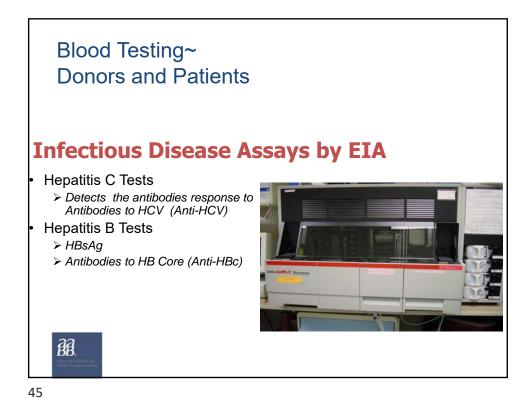


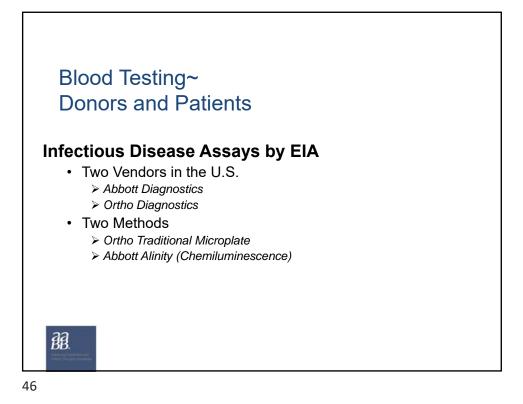
Test         Methodology           ABO/Rh         Agglutination           Red Cell Ab screen         Agglutination           Syphilis         Agglutination           *CMV testing is available, but not required         CMV*         Agglutination           *FDA requires testing on first time donors only         HBsAg         EIA           Anti-HBc         EIA         EIA           Anti-HBc         EIA         EIA           Anti-HIV-1/2 + group O         EIA         EIA           Anti-HCV/III         EIA         EIA           HBV/HIV/HCV-NAT         Pooled PCR         EIA	Current Blood Donor Tests 20		
Red Cell Ab screen     Agglutination       Syphilis     Agglutination       *CMV testing is available, but not required     CMV*     Agglutination       HBsAg     EIA       **FDA requires testing on first time donors only     Chagas**     EIA       Anti-HIV-1/2 + group O     EIA       Anti-HTLV-1/II     EIA       Anti-HTLV-1/II     EIA		Test	Methodology
Syphilis     Agglutination       *CMV testing is available, but not required     CMV*     Agglutination       HBsAg     EIA       **FDA requires testing on first time donors only     Chagas**     EIA       Anti-HTLV-I/II     EIA       Anti-HTLV-I/II     EIA		ABO/Rh	Agglutination
*CMV testing is available, but not required Anti-HBc EIA **FDA requires testing on first time donors only Anti-HUV-1/2 + group O EIA Anti-HTLV-1/II EIA		Red Cell Ab screen	Agglutination
available, but not required     HBsAg     EIA       **FDA requires testing on first time donors only     Chagas**     EIA       Anti-HTLV-I/II     EIA       Anti-HTLV-I/II     EIA		Syphilis	Agglutination
available, but not requiredHBsAgEIAAnti-HBcEIA**FDA requires testing on first time donors onlyEIAAnti-HTLV-I/IIEIAAnti-HTLV-I/IIEIA	available, but not	CMV*	Agglutination
**FDA requires testing on first time donors only Chagas** EIA EIA EIA EIA Anti-HIV-1/2 + group O EIA Anti-HTLV-I/II EIA EIA		HBsAg	EIA
**FDA requires     Anti-HIV-1/2 + group O     EIA       testing on first     Anti-HIV-1/2 + group O     EIA       time donors only     Anti-HIV-1/2 + group O     EIA		Anti-HBc	EIA
testing on first time donors only Anti-HIV-1/2 + group O EIA Anti-HIV-1/2 + group O EIA EIA EIA EIA	testing on first	Chagas**	EIA
time donors only Anti-HTLV-//II EIA		Anti-HIV-1/2 + group O	EIA
Anti-HCV EIA		Anti-HTLV-I/II	EIA
HBV.HIV.HCV-NAT Pooled PCR		Anti-HCV	EIA
, ,		HBV,HIV,HCV-NAT	Pooled PCR
WNV-NAT IND or Pooled PCR		WNV-NAT	IND or Pooled PCR
Babesia microti IND or Pooled PCR	BB	Babesia microti	IND or Pooled PCR
Zika Virus IND or Pooled PCR		Zika Virus	IND or Pooled PCR

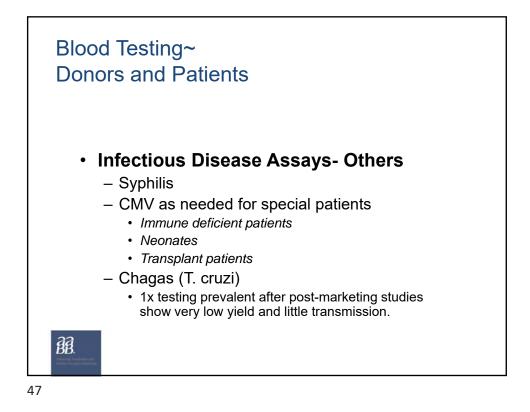
## AABB Blood Banking & Transfusion Medicine 101 Course

Slide 43

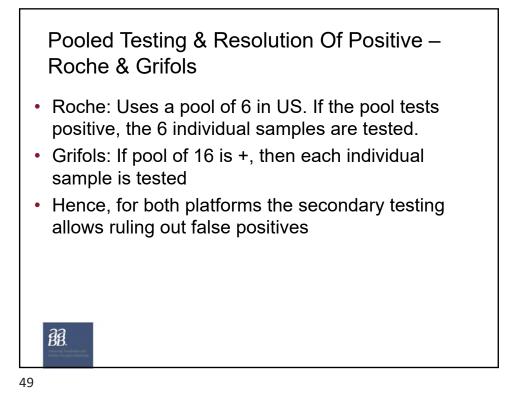
MAJ1 Mark A. Janzen, 11/13/2019







## Nucleic Acid Testing (NAT) Lab **Using Molecular Methods** Most NAT testing in the US is Cobas Hamilton STAR Pipettor performed as pooled testing, either in pools of 16 or 6. This works well when both the assay is very sensitive and when there is a low background prevalence of the infection tested for in the tested population. Where used in high prevalence areas, individual donor testing is better with respect to sensitivity and not having to retest. BB



## Roche NAT Testing System

Current NAT platform performs nucleic acid extraction and PCR multiplex assays. Used to screen for HIV, Hepatitis B,C, WNV, Zika and regionally for Babesia. Generally screening performed in pools of 6 for blood donors, individually for tissue/cell therapy donors. Roche 8800



BB.

