

Learning Objectives

After participating in this program you should be able to....

- Define and discuss medical professionals who collect, oversee or manufacture blood components.
- Describe the role of the FDA, CLIA and other regulatory bodies in blood manufacturing.
- Explain the operational logistics required in determining appropriate blood inventory for a geographic region and the process of meeting daily, weekly, and monthly collection goals.





Medical Staff

- Education
 - Usually a pathologist with residency in transfusion medicine
 - Can be a MD or DO
- Responsibilities
 - Consult with blood bank staff
 - Consult with patient's physicians
 - Review adverse reactions
 - Teach
 - Approve SOPs



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Clinical Laboratory Technologist

- · Education Requirements
 - 4 year BS degree
 - HHW route
- · Responsibilities
 - Perform testing
 - Crossmatch
 - · Antibody screens and identifications
 - · With experience may perform tests normally delegated to SBB



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Clinical Laboratory Technician

- · Education Requirements
 - Associates degree
- Responsibilities
 - Perform routine laboratory testing



Phlebotomists

- · Education Requirements
 - Certification desirable but many are trained on the job
- Responsibilities
 - Screen donors
 - Take blood samples
 - Draw donors
 - Label
 - Provide excellence in donor care and customer service



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Specialist in Blood Banking

- Education Requirements
 - BS degree with a major in biology, microbiology or another biological or physical science
 - Certification as a medical technologist
 - Attend SBB school and pass exam
 - Study and pass exam
- Responsibilities
 - Perform specialized testing
 - Work with difficult patient samples



Nursing Staff

- · Education Requirements
 - RN
 - LPN
- · Responsibilities
 - Perform specialized apheresis procedures
 - · Personalized medicine
 - · Granulocyte harvest



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Manufacturing and Distribution Technicians

- Education
 - High School diploma or equivalent
- Responsibilities
 - Process whole blood into components
 - Leukoreduction
 - Filling orders for hospitals and other customers



Drivers

- Education
 - May need CDL
- Responsibilities
 - Deliver blood and blood products
 - Drive mobile buses and trucks

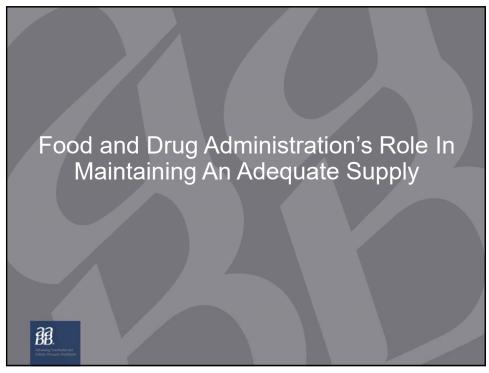


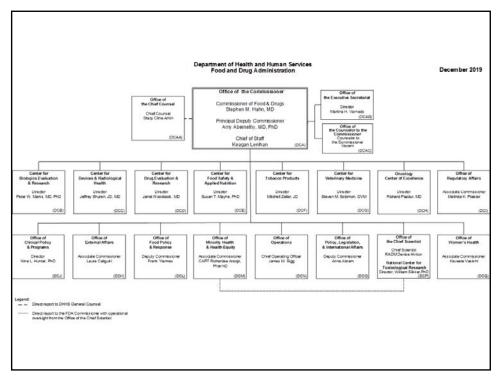
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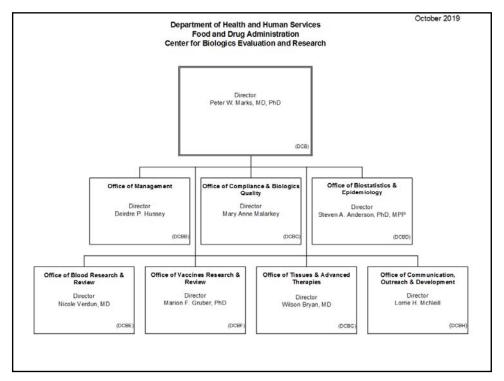
Others Who Work in Transfusion Medicine

- Recruiters
 - Field
 - Telerecruiters
- Marketing professionals
- · PR professionals
- Volunteers





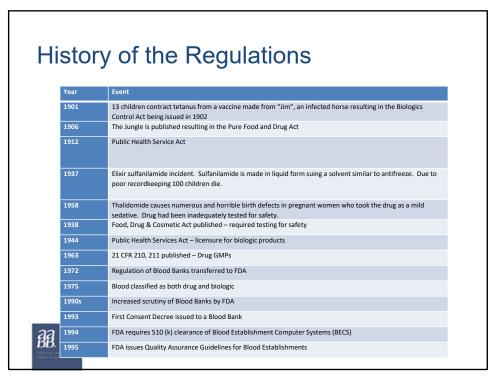




Mission Of CBER

The mission of the Center for Biologics Evaluation and Research (CBER) is to ensure the safety, purity, potency, and effectiveness of biological products including vaccines, allergenics, blood and blood products, and cells, tissues, and gene therapies for the prevention, diagnosis, and treatment of human diseases, conditions, or injury. Through our mission, we also seek to protect the public against the threats of emerging infectious diseases and bioterrorism.





Purpose Of The FDA

- · Rule making
- Licensing
- Inspection



Rule Making

- 21 CFR
 - Laws, state minimal requirements
 - Part 200
 - Good manufacturing practice. drugs
 - Part 600
 - Good manufacturing practice, biologics
 - Part 800
 - Quality Systems Regulations
- Guidance Documents



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Regulation vs Accreditation

- Regulation
 - Laws
 - Must follow
- The Food and Drug Administration (FDA) is an example of a regulator.
- Accreditation
 - Voluntary
 - Elect to follow
- AABB and FACT are examples of accrediting organizations.



Licensing

- BLA
 - Establishment
 - Products
- Required for interstate commerce



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Inspections

- At least biannual
- · Types of inspections
 - Routine
 - Follow-up
 - Complaint
 - Pre-licensure



Areas the FDA Inspects

- Organization and personnel
- Buildings and facilities
- Equipment
- Production and process controls
- Holding and distribution
- Finished product control/labeling
- Laboratory controls
- Records and reports

- · Facilities
- · Environmental control
- Equipment
- Supplies/reagents
- Processing/process controls
- Storage
- Receipt, predistribution and distribution
- · Donor eligibility



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Systems Based Approach

- Quality Assurance
- Donor Eligibility
- Product Testing
- Product Collection, Component Preparation and Labeling
- Quarantine/Storage/Disposition



5 Layers of Safety

- · Donor Screening
- Donor Deferral
- · Product Testing
- Quarantine
- · Monitoring and Investigating Problems

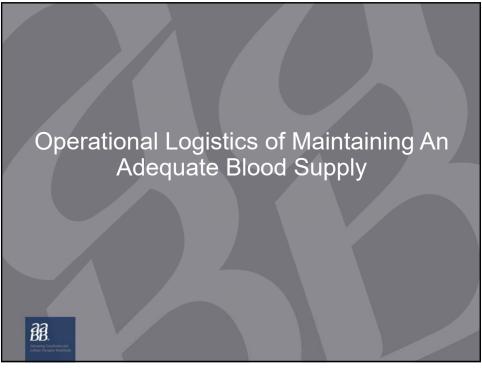


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Inspectional Outcomes for Noncompliance

- 483
- Warning letters
- · Consent decree
- · Legal action





Recruitment

- · Deciding best way to recruit the donors
 - Field recruiters
 - Telerecruiters
 - Direct mail
 - Email
 - Text
 - Media
 - Other



Recruitment Strategies

- · Mobile Apps
- · Streaming Media
- Press Releases
- Video
- Retargeting



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Recruitment Strategies

- · Live Chat
- Blogging
- Email
- Google Ads
- Display Ads
- Podcasts



Recruitment Strategies

- · Social Media
- App Creation
- User generated content
- Texting



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Understanding Donor Demographics

- · Where they live
- Generational factors
- Education
- Work patterns
- · Where they shop



Factors To Consider When Setting Up a Blood Drive

- · Size of the organization
- · Demographics of employees
- · Proximity to fixed site
- · Distance from processing facility
- Availability of staff
- · Availability of room or will mobile bus be needed
- Champion?



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Factors to Consider When Selecting a Fixed Site

- · Demographics of the area
- Exposure
- · Traffic to the area
- · Competition in the area
- · Proximity to other fixed sites
- What products to collect
- Proximity to manufacturing facility
- Costs





Collect To Need

- Determine the needs of local customers and collect according to need
- Does not work well in an enterprise system where resources are shared within the enterprise – must collect to resource share with others in the enterprise
- Determine what products you need for distribution
 - SDPs
 - Random platelets
 - Red cells
 - Plasma
 - Cryo



Follow a Model To Determine Collection Needs – Information Needed

- · Daily distribution needs for each product
- · Outdates at customer sites
- · Returns from customers if allowed
- Seasonality of collections
- Imports
- Exports



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Factors To Consider

- Number of customers
- Par levels of those customers for various products
- · Transfusion patterns of customers
- · Ordering patterns of customers
- · Services offered by customers
- · Outdate rates of customers
- Availability of blood and blood products, particularly around holidays
- Outside sources for meeting demand
- Is the customer associated with an academic facility?



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Tools To Assist

- Data
 - Distribution
 - Orders
 - Outdates
- Models
- Huddles
- Customer Reviews





Questions?

Contact

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